THE BUILDER'S DIRECTOR, OR *BENCH-MATE:*

BEING

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OF THE

Grecian, Roman, and *Gothic* ORDERS of ARCHITECTURE,

Made eaſy to the meaneſt Capacity by near 500 *Examples,*

Improved from the beſt AUTHORS, Ancient and Modern,

Of *Pedeſtals, Baſes, Shafts, Capitals, Columns, Architraves, Friezes, Brackets, Cornices, Arches, Impoſts, Key-ſtones, Truſſes, Moldings of Raking Pediments, Frontiſpieces, Portico's, Arcades, Colonades, Chimney-Pieces, Fretts, Guilochi's, Groins, Weatherings, Moldings for Tabernacles, Frames,* &c.

PROPORTIONED

By MINUTES and by EQUAL PARTS.

Engraved on 184 Copper Plates.

WHEREIN

The Orders of ANDREA PALLADIO are truly laid down, free from erroneous Meaſures.

Written for the Uſe of *Gentlemen* delighting in True ARCHITECTURE; and for *Maſters* and *Workmen* to draw from and work after.

By BATTY LANGLEY, Architect.

LONDON: Printed for HENRY WEBLEY, in *Holborn,* near *Chancery-lane.* 1767.


R. III.
M.S.

INTRODUCTION.

AS the greateſt Part of the Architecture of ANDREA PALLADIO, publiſhed by *Leoni*, *Ware*, &c. in large Folio's, conſiſts chiefly of Deſigns of Palaces, Bridges, and Temples, which to Workmen are of little Uſe; and as thoſe Books are of large Prices, beyond the Reach of many Workmen, and too large for Uſe at Work; I have therefore, for the common Good, extracted from the Works of that great Maſter all that is uſeful to Workmen; and which (with very large Additions of the beſt Examples in every Order, in this ſmall Volume, which renders it an entertaining an inſtructive Companion) I have made fully as plain and intelligible, as they have done in their large Folio's, and at ſo eaſy a Rate, as to be purchaſed by any common Labourer.

In the following Work, I have taken the utmoſt Pains to lay down every Individual with the ſtricteſt Truth, as a late Author * pretends to have done before me; but upon a juſt Examination, it is evident he has not done ſo.—As for Example: In his *Ionick* Entablature, whoſe Height ſhould be equal to one 5th of the Column, *viz.* 108 Min. he has made it 109 Min. and the Height of his Architrave, which *Palladio* makes equal to one 6th of the Entablature, *viz.* 36 Min. he has made 36 $\frac{1}{2}$ Min.

And notwithſtanding that the Projection of the *Cima Recta*, called by *Palladio*, *Gola Diritta*,

* *Ware.*

which crowns the Entablature of every Order, is never made greater than equal to its own Height; yet he has made that of the *Tuſcan* to exceed it 1 ¾ Min. that of the *Dorick* ¾ Min. that of the *Ionick* ½ Min. that of the *Corinthian* ⅝ Min. and that of the *Compoſite* 1 Min. which *Palladio* himſelf, was he living, could not juſtify.

To theſe I could add much more, which I omit, and inſtead thereof ſhall lay down ſome general Rules, which ſhould be known to every Perſon delighting in ſound Architecture, that will be more uſeful; *viz.*

I. That the Height of the { *Tuſcan* / *Dorick* / *Ionick* / *Corinthian* / *Compoſite* } { Column, including its Baſe, Shaft, and Capital, is } { 7 / 8 / 9 / 10 / 10 } Diameters of the Column next above the Mouldings of its Baſe.

II. That the Height of the Baſe to the Column of every Order is always equal to the Semidiameter of the Column; unleſs in the *Tuſcan* Order, whoſe Cincture (which is Part of the Shaft) is ſometimes included in the Height of the Baſe, as A, Page 8.

III. That the Height of the *Tuſcan* and *Dorick* Capitals is alſo equal to the Semidiameters of their Columns.

IV. That the Height of the *Ionick* Capital is but 20 Minutes, unleſs the entire Height of the Volute be included; and then, from the Top of the Abacus to the lower Part of the Volute, is equal to a Semidiameter, as aforeſaid.

V. That the Height of the *Corinthian* and the *Compoſite* Capitals is each 1 Diameter and 10 Min. *viz.* 10 Min. to each Abacus, and 1 Diameter to each *Campana* or Bell Part.

VI.

VI. That the Height of the *Tuſcan* and *Dorick* Entablatures is always each equal to $\frac{1}{4}$ of the Height of the Column; and therefore the Height of the *Tuſcan* Entablature is 1 Diameter and $\frac{3}{4}$, and the *Dorick* 2 Diameters.

VII. That the Height of the *Ionick*, *Corinthian*, and *Compoſite* Entablatures be each equal to $\frac{1}{5}$ of the Height of the Column; and therefore

The Height of the	*Ionick*	Entablature is	1 D. 48 M.
	Corinthian		2 — 0
	Compoſite		2 — 0

VIII. That the Height and Projection of every Cornice muſt be equal, unleſs the *Dorick*, which when Mutules are introduced, its Projection is greater, as in Plate 20.

IX. That the Diminution of the	*Tuſcan*	Shaft of the Column is generally	$\frac{1}{4}$
	Dorick		$\frac{1}{5}$
	Ionick		$\frac{1}{6}$
	Corinthian		$\frac{1}{7}$
	Compoſite		$\frac{1}{7}$

of its Diameter.

X. That the Upright of the Dado of every Pedeſtal be directly under the Upright of the Plinth, to the Baſe of the Column ſtanding over it.

XI. That the Height of the Pedeſtal of every Order be divided into 4 equal Parts, as in Page 8, - - - - - of which always give the lower 1 to the Height of the Plinth D, $\frac{1}{8}$ of the next 1 to the Height of the Molding on the Plinth C; Half the upper 1 to the Height of the Cornice A, and the Remainder to the Height of the Dado B.

XII. That the Diameter of the Dado to the *Tuſcan* Pedeſtal be always equal to its own Height, and to the Height of the Moldings on its Plinth, as in Page 8.

XIII.

XIII. That the Diameter of the Dado to the *Dorick* Pedeſtal be always equal to its own Height, as in Page 19.

XIV. That the Diameter of the Dado to the *Ionick* Pedeſtal be always equal to Half the Height of the whole Pedeſtal, as in Page 32.

XV. That the Semidiameter of the Dado to the *Corinthian* and to the *Compoſite* Pedeſtals be each equal to $\frac{5}{7}$ of the Height of the Plinth.

XVI. That the Projection of the Plinth and of the Cornice, before the Upright of the Dado in every Pedeſtal, be always equal to the Height of the Moldings on the Plinth, as in Pages 8, 19, and 32.

XVII. That the lower Faſcia of every Architrave, and the Frize of every Entablature, in all the Orders, do always ſtand directly over the Upright of the ſmalleſt Part of the Shaft of the Column or Pillaſter, next under the Hollow of its Aſtragal, that thereby *Solid may reſt on Solid*, and the Whole have a true Bearing.

In every of the following Orders, before I proceed to exhibit their particular Members, I have given all the Varieties of Caſes, how to proportion their principal Parts to any given Height, and to find the Diameter of the Column, which muſt be firſt known, as being the Scale by which we give the Heights and Projections to all the Members, according to their Meaſures affixed. And therefore, in every Order, the Diameter of the Column is ſuppoſed to be divided either into 60 equal Parts, called *Minutes*, as in the Orders of PALLADIO, or into 24 or 36 equal Parts, as in the Orders of that venerable

venerable Maſter JACOMO BAROZZIO of *Vignola*, which I have comprized in this Work.

At the Bottoms of the following Pages, the Kind of Meaſure by which the Members are formed is ſignified; *viz.* by Minutes, Parts, *&c.* and in thoſe Pages where both Minutes and 24th, *&c.* Parts are uſed together, the Minutes are diſtinguiſhed from the 24th, *&c.* Parts by the Letter *M.*

The Heights of the Members are expreſſed by the Number of *Minutes* or *Parts* placed on them, to be read upwards; and their Projections are ſignified by the Numbers placed at their Extreams, which are accounted either from each other's Perpendiculars, as in the Entablature of PALLADIO, Page 5; or from the Upright of the Column, as in the Cornice in Page 10; or from the Central Line, as in its Architrave.

In the laſt Part of this Work I have given a great Variety of *Gothick* Moldings for the *Baſes* and *Capitals* of *Columns*, *Arches*, *Weatherings*, *Jaumbs* for Doors, Windows, Chimney-Pieces, *&c.* and the Manner of deſcribing them geometrically of any Magnitude deſired: Which, being entirely new, I hope will be favourably received.

BATTY LANGLEY.

The Names of Moldings, &c. by ANDREA PALLADIO.

The Molding, &c. which is generally called	ANDREA PALLADIO calls
an *Abacus*,	*Abaco.*
an *Annulet*,	*Annelli.*
an *Architrave*,	an *Architrave.*
an *Aſtragal*,	*Tondino.*
a *Baſe*,	a *Baſe*,
a *Cavetto*,	a *Cavetto*,
a *Cima recta*,	*Gola diritta.*
a *Cima reverſa*,	*Gola reverſa.*
a *Cincture*,	*Cimbia.*
a *Corona*,	*Gociolatoio.*
a *Dado*,	a *Dado.*
a *Dentil*,	*Dentilla.*
a *Drop*,	*Gutæ.*
a *Drip*,	*Gronda.*
a *Faſcia*,	*Paſcia.*
a *Fillet*,	*Liſtello.*
a *Frize*,	*Fregio.*
a *Metope*,	*Metopa.*
a *Modilion*,	*Modiglion.*
a *Module*,	*Module.*
a *Mutule*,	*Mutule.*
the Neck of a *Tuſcan* or *Dorick* Capital,	*Collarino.*
an *Ovolo*,	*Ovolo.*
a *Pedeſtal*,	*Poggio.*
a *Plinth*,	*Zoccolo*, or *Orlo.*
a *Shaft*,	a *Fuſt*,
a *Scotia*,	a *Cavetto*,
a *Tenia*,	a *Benda*,
a *Torus*,	a *Baſtone.*

An Explanatory INDEX

For Young Students in Architecture.

A.

To proportion their Parts.

Divide the Vacuity in 3, &c. *Parts, as therein expreſſed, and of thoſe Parts, give to the Breadth and Height of each principal Member, as denoted by the Figures affixed.*

N. B. When the entire Height of a Cornice to a Chimney-Piece is known, you are then to work any Cornice therein at Pleaſure; for which Purpoſe I have given 24 Varieties in 126, 127, 128.

☞ *And of Tenia's or Bands to their Architraves, I have given* 48 *Varieties in* 116, 117, 118, 119, 120, 121.

I. *Of* Tuscan Cornices.

If the Cornice is to be conſidered as the Cornice of an Entablature on a Column only, then divide the given Height in 35 equal Parts, and give three of thoſe Parts to the Height of the Cornice.——But if the Column is ſuppoſed to ſtand on a Subplinth of 1 Diameter in Height, then divide the given Height in 39 Parts, and give 3 to the Cornice. And if the Column be ſuppoſed to ſtand on a Pedeſtal, then divide the given Height in 43 ¾ Parts, and give 3 to the Cornice.

II. *Of* Dorick Cornices.

If the Cornice is to be conſidered as the Cornice of an Entablature on a Column only, divide the given Height in 40 Parts, and give 3 to the Cornice: But if on a Column and Subplinth of 1 Diameter, divide the Height in 44 Parts, and give 3 to the Cornice; and if on a Column and Pedeſtal, then divide the Height in 50 Parts, and give 3 to the Cornice.

III. *Of* Ionick, Corinthian, *and* Composite *Cornices.*

If the Cornice is to be conſidered as the Cornice of an Entablature on a Column only, then divide the Height in 15 Parts, and give 1 to the Height of the Cornice: But if on a Column and Subplinth of 1 $\frac{1}{11}$ Diameter in Height, then divide the Height in 66 Parts, and give 4 to the Cornice; and if on a Column and Pedeſtal, then divide that given Height in 75 Parts, and give 4 to the Cornice.

in

DORICK

D.

Dado, *the Dye, or that middle ſquare Part of a Pedeſta*
contained between its Cornice and Baſe.

E.

ENtablature, *the uppermoſt principal Part of an entir*
Order, conſiſting of the Architrave, Frize, an
Cornice.

F.

G.

(1) Fig. A, divide the given Breadth *n* 8 in 8 Parts; on the Points 2, 6, deſcribe the equi-lateral Triangle 2, 6, *r*, and draw the Lines *t r q*, and *s*, *r*, *p*, cutting 3 *p* in *p*, and 7 *q* in *q*: On the Centers 2 and 6, deſcribe the Hanch-Arches *x z*, and *y* 7; and on *p q* the Arches *z v* and *v y*, and others concentrick, to form the Architrave at Pleaſure.

(2) *The Hair-lip'd Arch*, Fig. B.

Divide the given Breadth *d* 10, in 10 Parts; make *d c* equal to 2 Parts, and draw the Lines *c e* 2——On the Points 2 and 8, deſcribe the Arches *d e* and 10 *h*, and draw the Line *e h*;——On the Point 5 deſcribe the Semi-circle *e n o h*, and draw the Line *i n o k* parallel to *d* 10.——Make *n o* equal to *d* 1, and draw the Lines *e n* and *o h*, which biſect in *t* and *v*. Biſect *e t*, and *t n* in *x* and *w*; and *h v* and *v e* in *g* and *l*.

On

On the Points *x* and *w*, raiſe the Perpendiculars *x i* and *w i*; and on the Points *g* and *l*, the two Perpendiculars *g f* and *l k*, and draw the Lines *i b* and *k w f*; on the Centers *b* and *i*, deſcribe the Arches *e t* and *t n*; and on the Centers *k f*, the Arches *o w* and *w h*.

——The Hair-lip'd Arch Fig. C is deſcribed in the ſame Manner, and the Crocket-Arch Fig. D, is ſo plain to Inſpection, that it needs no verbal Deſcription.

Gothick *Groins* are thus deſcribed, Fig. C 160. Make the Ordinate *a*, *b*, *c*, *d*, &c. in Fig. C equal to the Ordinates in Fig. A, and from 4 through the Points *b*, *q*, *f*, *b*, &c. to *z*, trace the Groin required. NOTE, *The Groin Arches Fig. D, G, I, H,* or any other Kind whatſoever, are found by this Rule.

Gothick *Columns, their Height is* 6 *Diameters, including the Diameters of their ſmall Cylinders, and their Intercolumnation is* 4 *Diameters.*

H.

I.

K.

L.

M.

O.

I. By Modules and Minutes.

The Diameter being given or found, as in Pages 1, 2,
4; 11, 12, 13, 14; 21, 22, 23, 24; 37, 38, 39, 4
divide it in 6 *equal Parts; and one of thoſe Parts in*
10, *and then the Whole may be ſaid to be divided in*
Parts, called Minutes.

Of theſe Minutes, *make the Height and Projection*
every Member equal to the Number of Minutes affix
to them, as in Page 5: *And then form their Extrem*
or Profiles, as is ſhewn in Page 116.

II. B

II. By the 24*ths* or 36*ths* of the Diameter, according to GIACOMO BAROZZIO of *Vignola*.

Divide the Diameter into 24 *Parts, as in Page* 7, *or* 36ths, *as in Page* 29; *and of thoſe Parts, make the Heights and Projections of each Member equal to the Number of Parts affixed to them, as before of Minutes.*

III. By equal Parts.

I. *The* TUSCAN ORDER.

1. Divide the entire Height in 5 Parts, as *a b* Page 1; the lower 1 is the Height of the Pedeſtal;—2dly, Divide the upper 4 Parts, as *e*, *f*, in 5 Parts, the upper 1 is the Height of the Entablature;—3dly, Divide the lower 4 Parts in 7 Parts, 1 is the Diameter of the Column;—4thly, Subdivide the Height of the Pedeſtal in 4 Parts, as in Page 8; give 1 to the Plinth; one third of one to the Moldings on the Plinth; ½ of the upper 1 to the Cornice, and the Remains to the Dado;—5thly, Divide the Height of the Entablature in 7, of which give 2 to the Architrave, 2 to the Frize, and 3 to the Cornice.

II. *The* DORICK ORDER.

The Height of the Pedeſtal is a 5th of the Whole, Page 11; and the Height of the Entablature is a 5th of the Remains, as before in the Tuſcan Order;—divide the 4 remaining Parts in 8 Parts, 1 is the Diameter of the Column—The Parts of the Pedeſtal are proportioned as thoſe of the Tuſcan, but the Height of the Entablature muſt be divided in 8, as in Page 20, of which give 2 to the Architrave, 3 to the Frize, and 3 to the Cornice.

III. *The* IONICK ORDER.

The Height of the Pedeſtal is a 5th of the Whole as before, but the 4 remaining Parts muſt be divided in 6 Parts, of which the upper 1 is the Height of the

Entablature, and the other 5 of the Column, and which being divided in 9 Parts, 1 is the Diameter of the Column.—The Parts of the Pedeſtal are found as in the other Orders; but the Height of the Entablature muſt be divided into 10 Parts, of which give 3 to the Architrave, 3 to the Frize, and 4 to the Cornice, as in Pages 34, 35.

IV. *The* CORINTHIAN *and* COMPOSITE ORDERS.

The Height of the Pedeſtal is a 5th of the Whole, and the Height of the Entablature is a 6th of the Remains, as before in the Ionick; but the 5 remaining Parts muſt be divided in 10 Parts, one of which is the Diameter of the Column.—The Parts of the Pedeſtal are here the ſame as in all the preceding Orders, and the Entablature being divided in 10 Parts, as in the Ionick, give 3 to the Architrave, 3 to the Frize, and 4 to the Cornice. Vide Page 48.

☞ NOTE, *The Subdiviſions of the reſpective Members of the preceding principal Parts in every of the Orders, being plain to Inſpection, need no further Explanation.*

P.

☞ NOTE, *Their Height in every Order is* 1 *Fifth of the Height of the entire Order.*

other Orders the Height is equal to 2 Ninths of its Extent.

ediment, *open on Truſſes, divide their entire Breadth in* 22 *Parts* ——— ——— 143

——— *broken* ——— ——— 142

——— raking and returned Mouldings *of Pediments are thus formed,* Fig. A B C ——— 142

et Fig. A be the *Cima Recta* of the level Cornice; draw the Ordinates 3, 4; 5, 6; 7, 8; at Pleaſure, and continue them to *i m n*; from whence draw the Lines *i r*, *m t*, and *n w*.— Draw *a y Fig.* B, and *a x Fig.* C— make the Ordinates *c d* and *r s*, each equal to the Ordinate 3, 4; alſo *e f* and *t v*, each equal to the Ordinate 5, 6; alſo *g h* and *w x*, each equal to the Ordinate 7, 8; then from the Point *b*, *Fig.* B, through the Points *d f h* to the Point *y*, trace the *Raking Cima*; and from the Point *q*, *Fig.* C, through the Points *s u x*, to the Point *z*, trace the *Returned Cima*, which are the Mouldings required.

N. B. The Raking and Returned *Cima Reverſa* D, the *Cavetto* E, and the *Ovolo* F, are all found in the preceding Manner.

ano, *the plain Faſcio of an Architrave, as in* 124, 125.

ilaſters, *their Heights of Baſes, Shafts, and Capitals, in every* Order, *are the* ſame as of Columns.

NOTE, *When Pilaſters are uſed with Columns, their Shafts muſt have the ſame Diminution as the Columns: But when they are uſed alone, they ſhould not be diminiſhed.*

laſters are fluted as following, viz. *divide the Breadth in* 29 *equal Parts, of which give* 1 *to each Fillet, and* 3 *to each Flute.*

But if it is required that they ſhould have a Bead at each Angle: Then

vide the Breadth in 31 *equal Parts, of which give* 1 *to each*

each Bead, and the other 29 *to the Fillets and Flutes as before.*

Portico's *are thus proportioned,* viz.

For 4 Columns:

Divide the given Front in 23 *Parts, two of which is the Diameter of the Column; then give* 3 *Diameters in the Clear to the Middle, and* 2 ¼ Diameters to each Side Interval.

For 6 Columns:

Divide the given Front in 18 *Parts,* 1 *Part is the Diameter.*

Then give 3 Diam. *to the Middle,* and 2 ¼ Diameters, in the Clear, to the Sides as before.

R.

S.

T.

V.

In deſcribing the Ionick Volute, Page 26, it is to be obſerved.——1. That the Centre of its Eye be placed directly under the Bottom of its Abacus, and againſt the Middle of the Aſtragal, as in Page 28. 2dly, That the Diameter of the Eye be equal to the Height of the Aſtragal; viz. 1 Eight of the entire Height of the Volute, as in Page 26.—That therein be inſcribed a Geometrical Square, with its Semi-Diameters divided, each in 3 equal Parts, at the Points

Points 6. 10; 5. 9; 11. 7; and 12. 8; in the Eye of the Volute at large; which are the Centres on which the Contour, or Out-line of the Volute, is described; *viz.* the Point 1 is the Center of the Arch *x i b*; the Point 2 of the Arch *b l d*; the Point 3 of the Arch *d o f*; the Point 4 of the Arch *f, q, h,* &c. And then each of thoſe Parts being ſubdivided into 3 Parts, the firſt next to the aforeſaid 12 Centres marked thus *, are the 12 Centres on which the Inſide Curve of the Volute is deſcribed.

W.

WEatherings for Gothick Windows and Doors

17

THE END.

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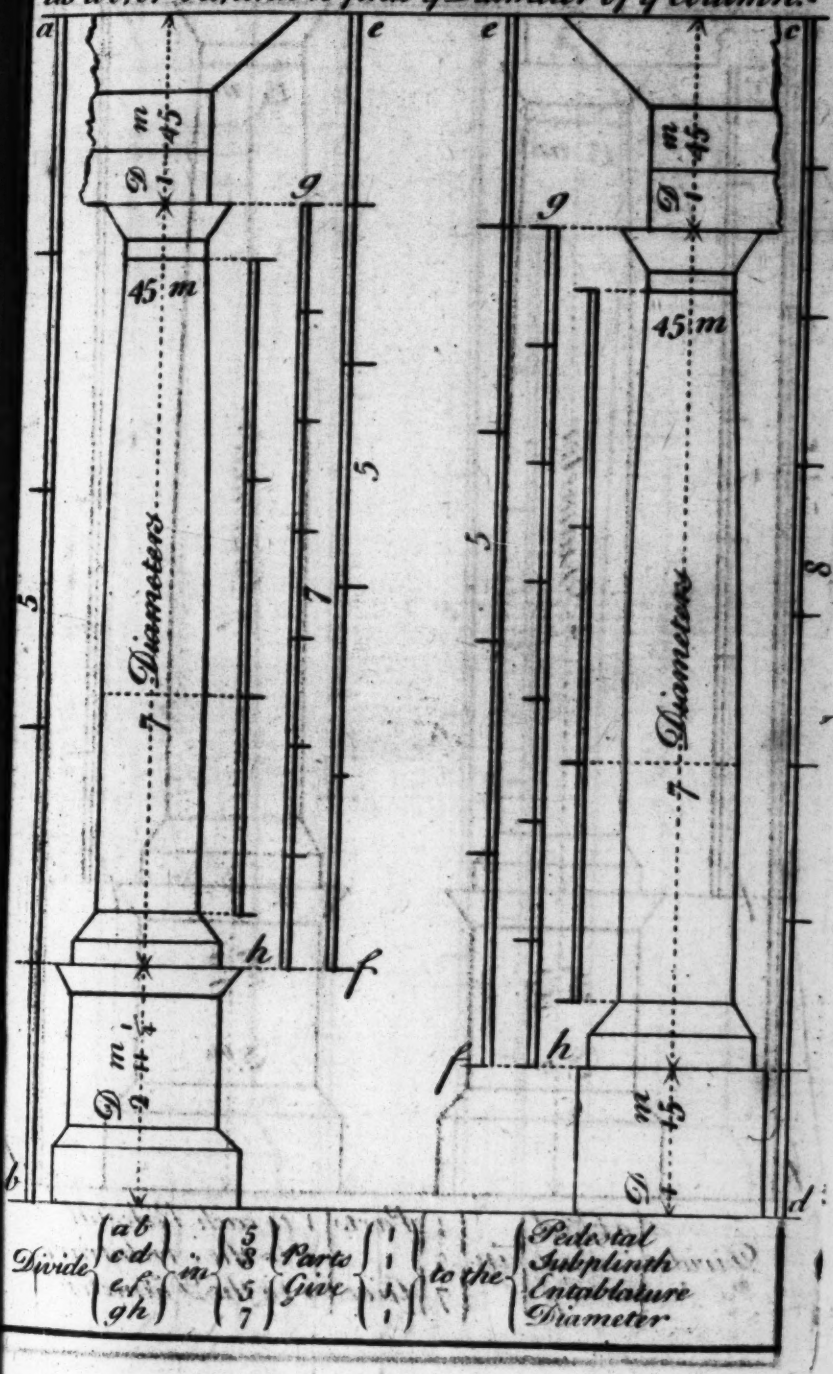
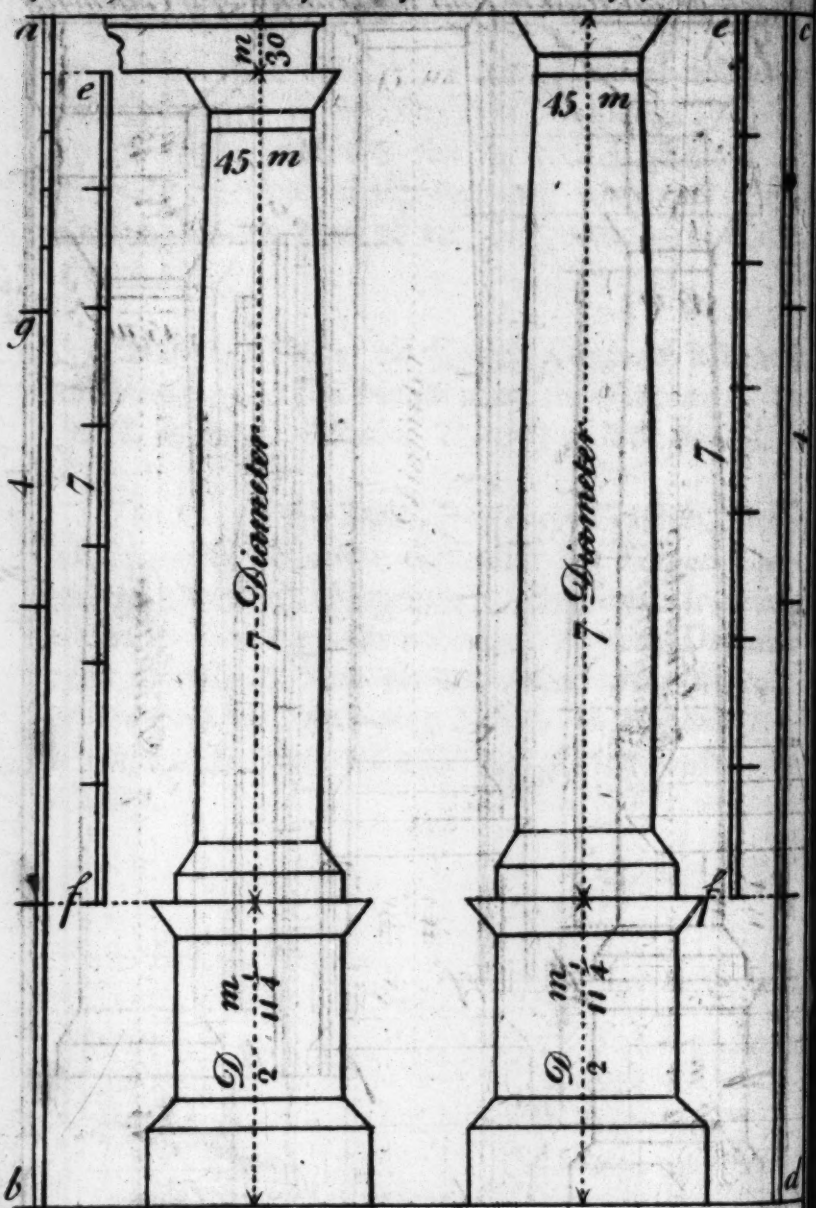
I. Of the TUSCAN ORDER.

To Proportion the Tuscan Column & Entablature, with its Pedestal or Subplinth to any given Height, as a b, or c d, and to find ij Diameter of ij Column.

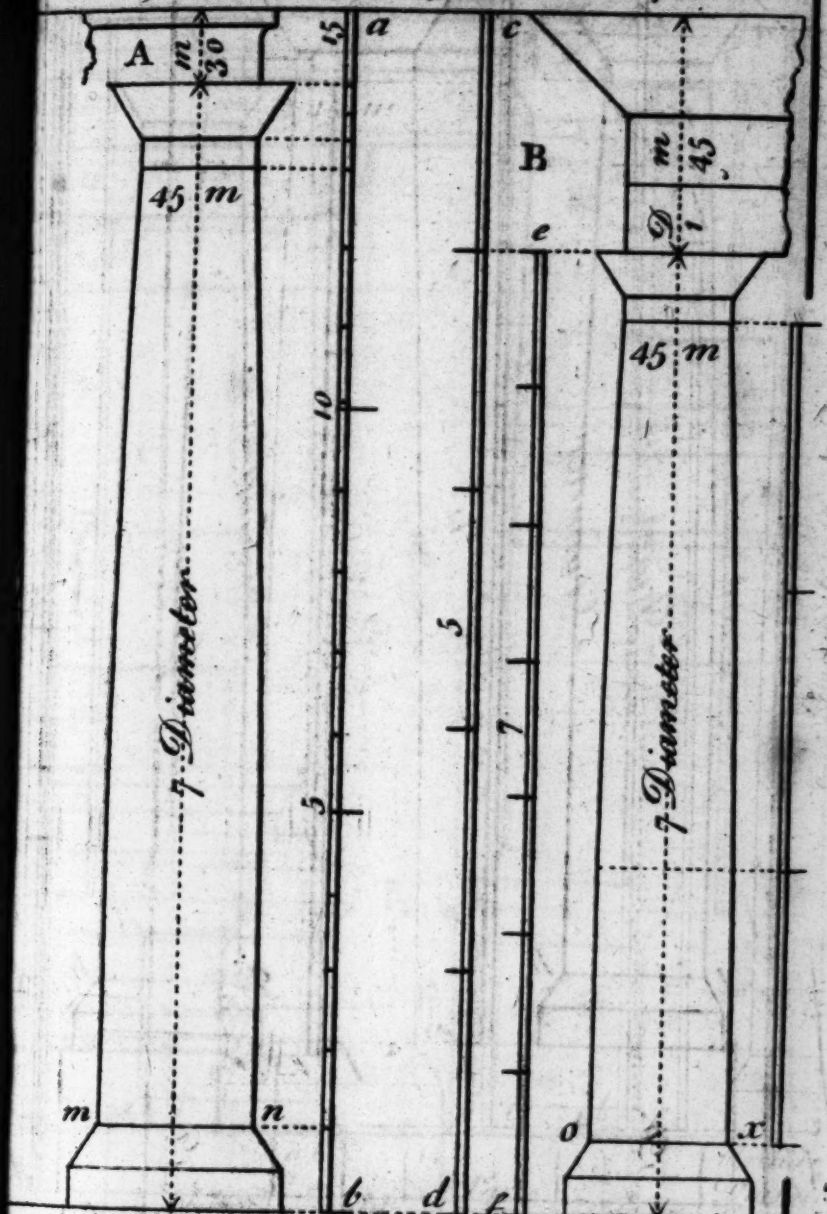


To Proportion the Tuscan Column & Pedestal, with or without its Architrave to any given Height, as a b & c d and to find the Diameter of the Column



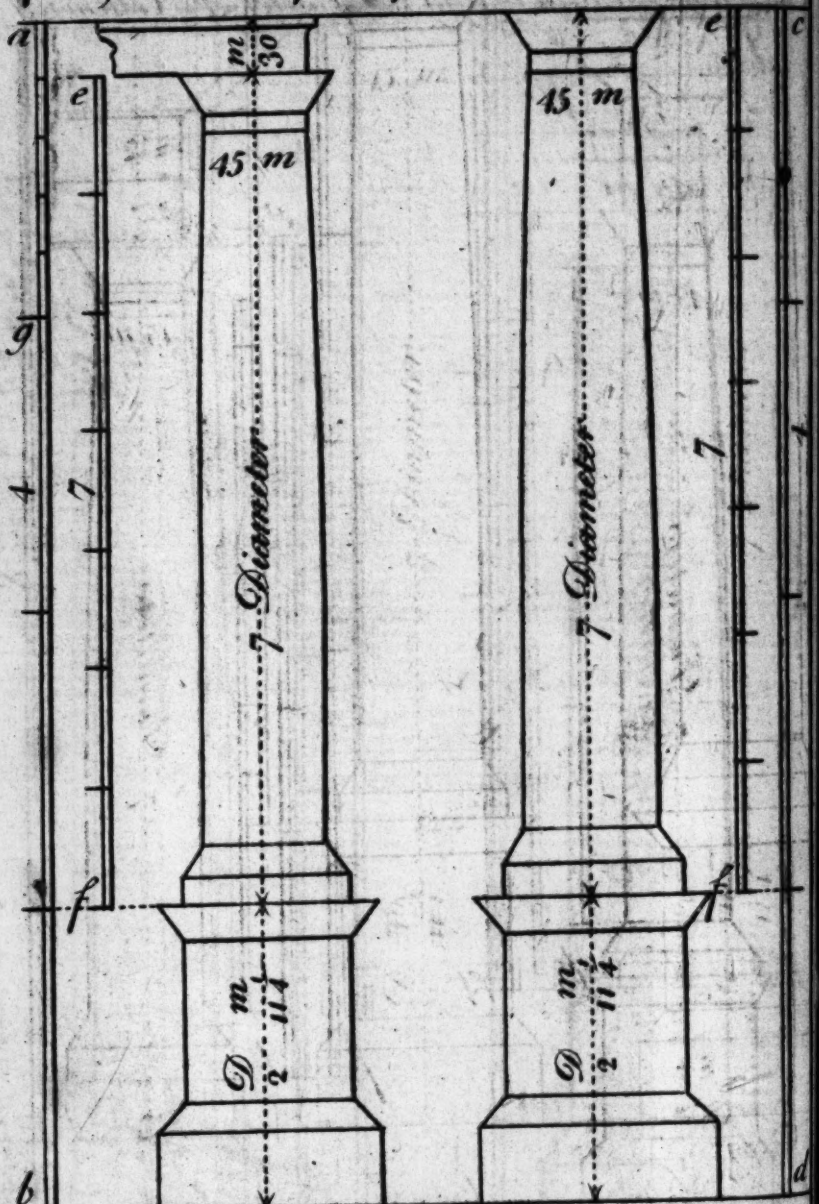
Divide { a b & c d / a g / e f } in { 4 / 5 / 7 } Parts { Give 1 to each Pedestal / 1 to the Architrave / 1 to the Diameter }

To Proportion the Tuscan Column with its Architrave only, or with its Entablature to any given Height, as a b & c d and to find y^e Diameter to y^e Column



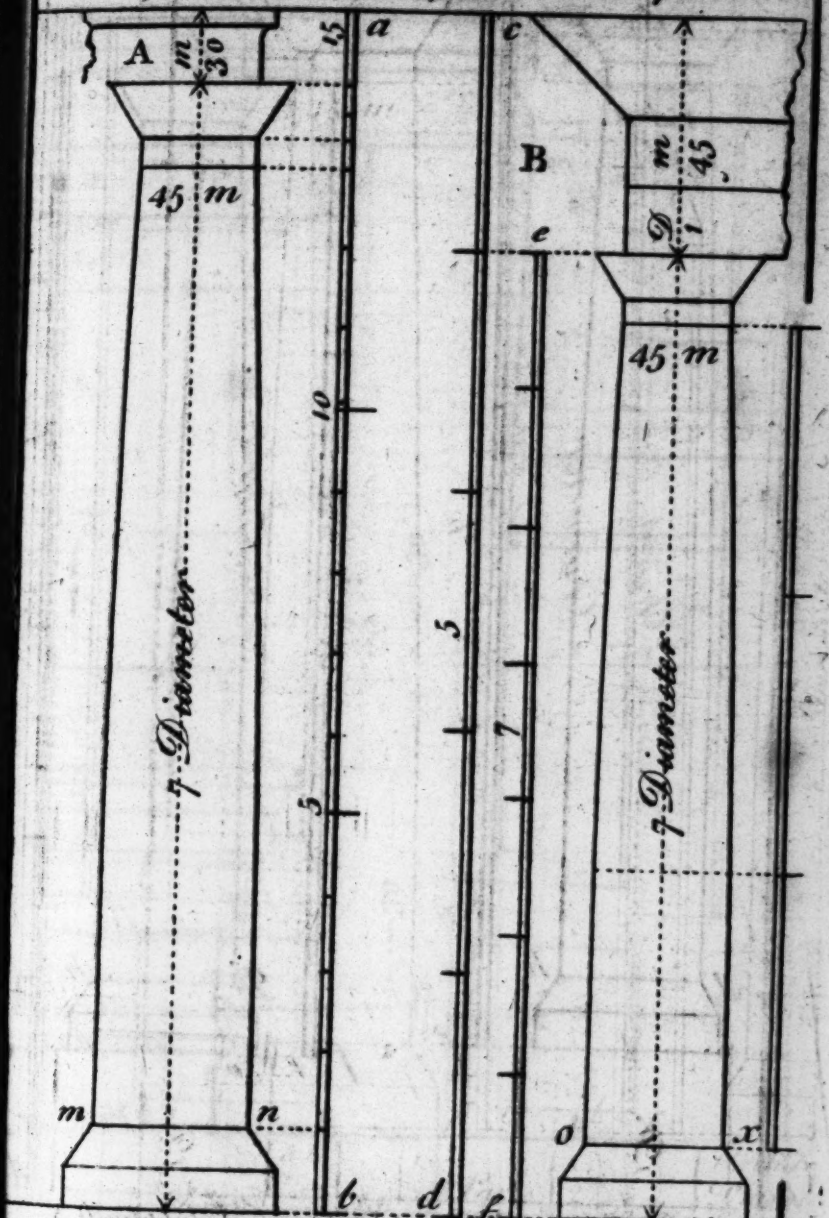
Divide	a b, c d, e f	in	15, 5, 7	Parts	Give 1, 2, 1, 1	to the Architrave A, Diameter m n, Entablature B, Diameter o x

To Proportion the Tuscan Column & Pedestal, with or without its Architrave to any given Height, as a b & c d and to find y^e Diameter of y^e Column



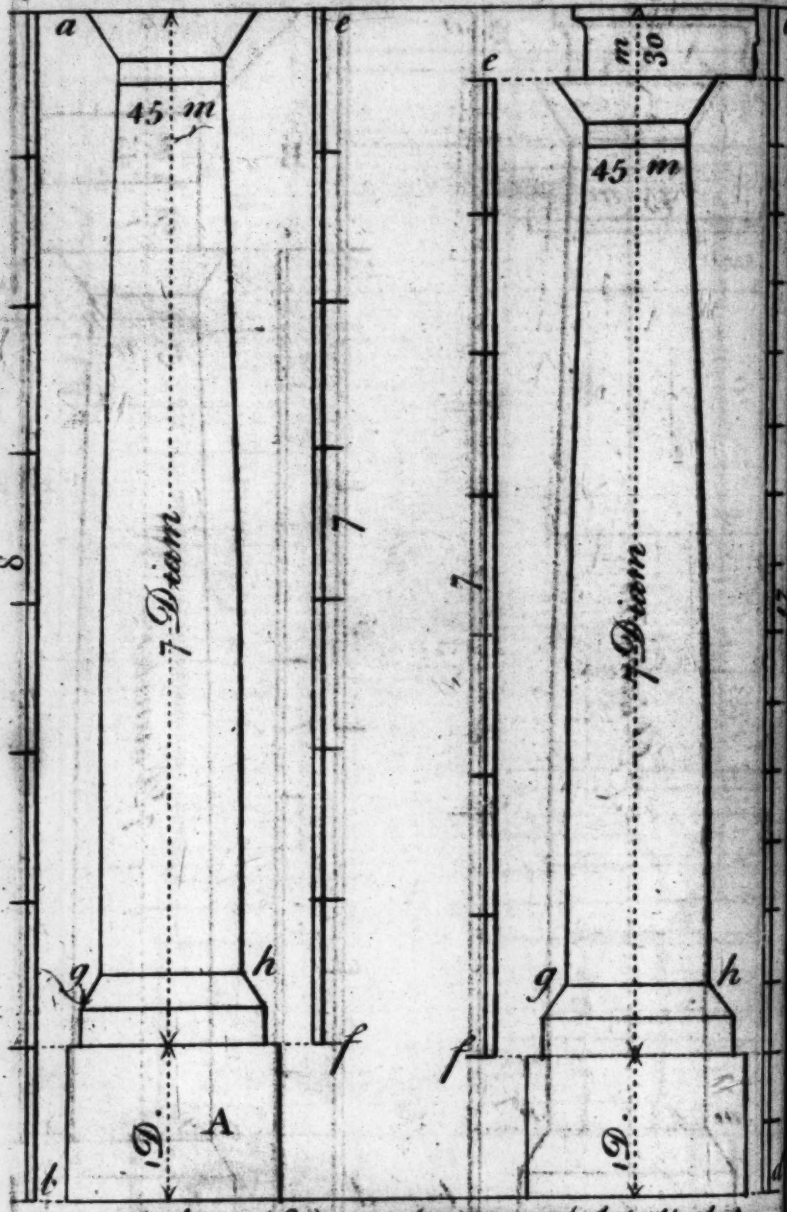
Divide { a b & c d / a g / e f } in { 4 / 5 / 7 } Parts { 1 to each Pedestal / 1 to the Architrave / 1 to the Diameter } Give

To Proportion the Tuscan Column with its Architrave only, or with its Entablature to any given Height, as a b & c d and to find ij Diameter to ij Column



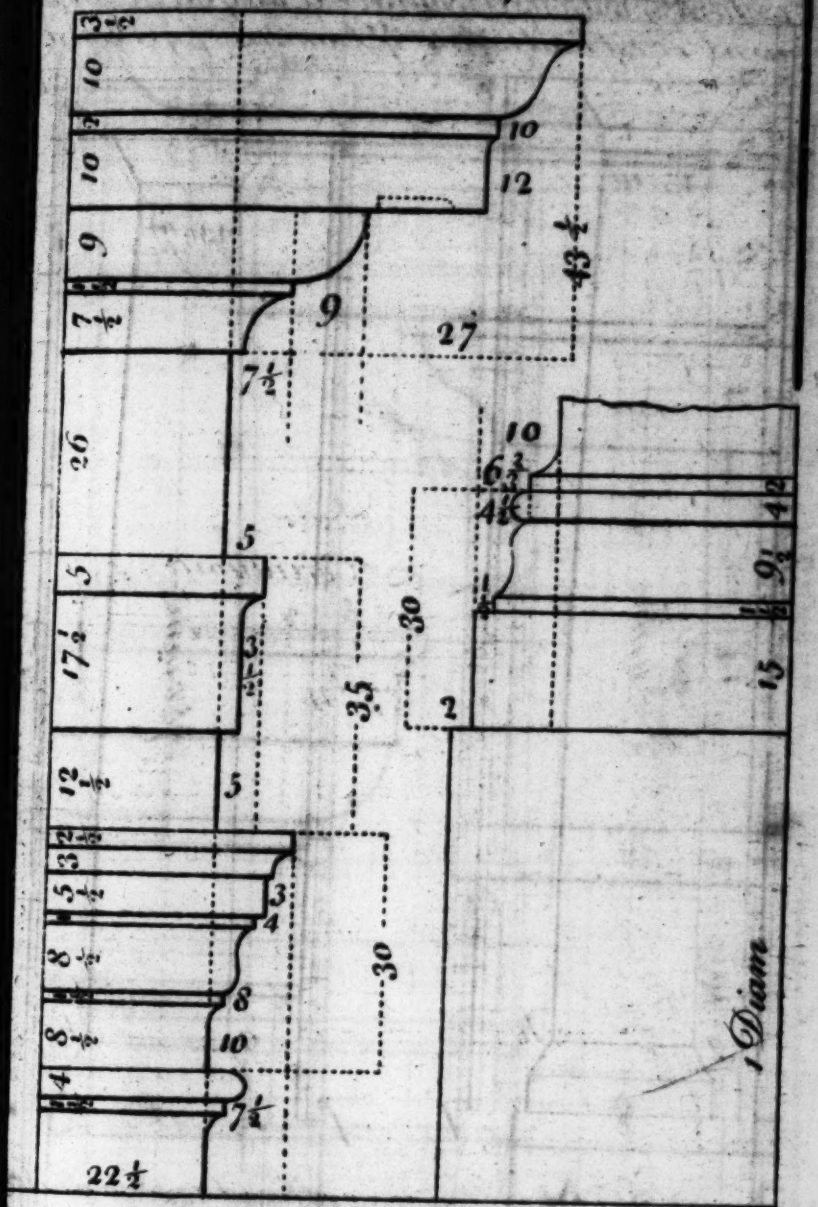
Divide { a b, c d, e f } in { 15, 5, 7 } Parts Give { 1, 2, 1, 1 } to the { Architrave A, Diameter m n, Entablature B, Diameter o x }

To Proportion the Tuscan Column and Subplinth, without, or with its Architrave to any given Height as a b or c d and to find y^e Diameter of y^e Column.



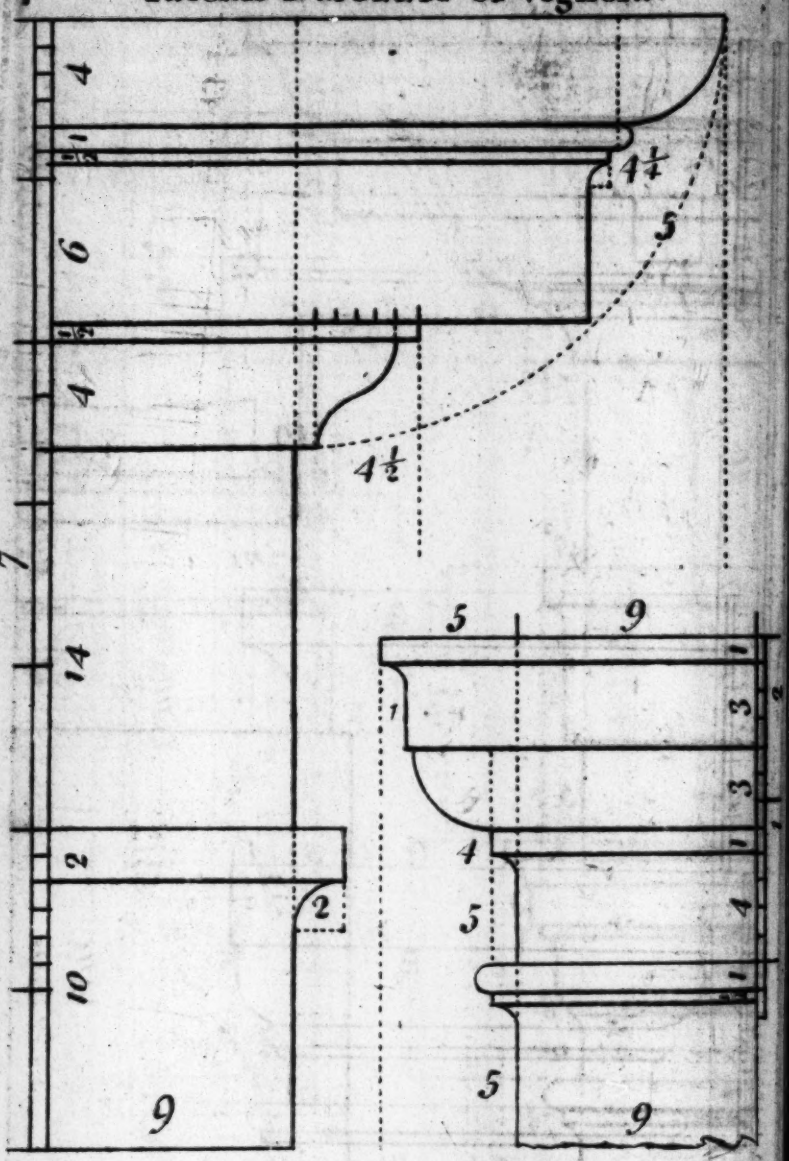
Divide { a b, c d, e f } in { 8, 17, 7 } Parts Give { 1, 2, 1 } to the { Subplinth A, Subplinth B, Diameter g h. &c.

The Tuscan Order by A Palladio.



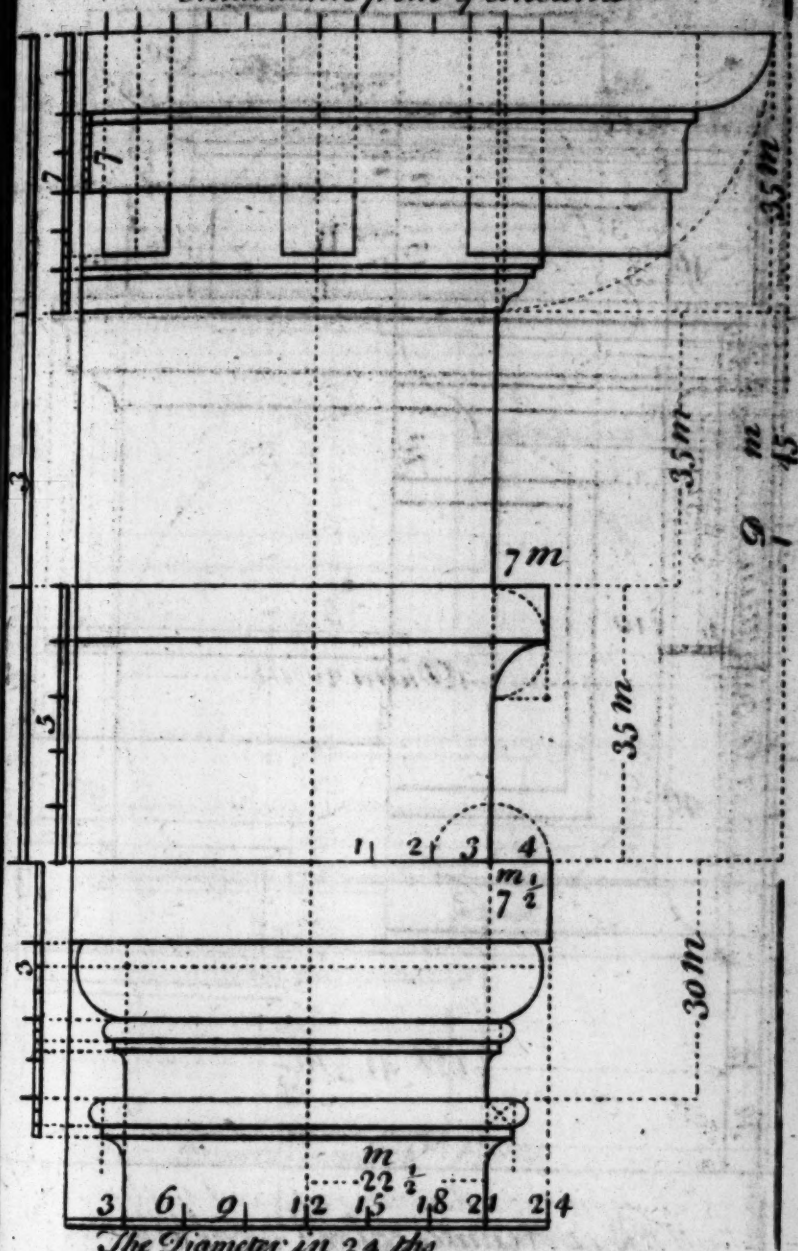
By Minutes

The Tuscan Capital and Entablature by Iacomo Barozzio of Vignola.



NB That the Measures affixed to this and to all the other Orders of this Master are 24th of the Diameter as shewn in Page 7 by which the Height & Projection of every Member is made in the same manner as by Minutes, in Page 5.

A Third variety of y Tuscan Capital and Entablature from y Ancients



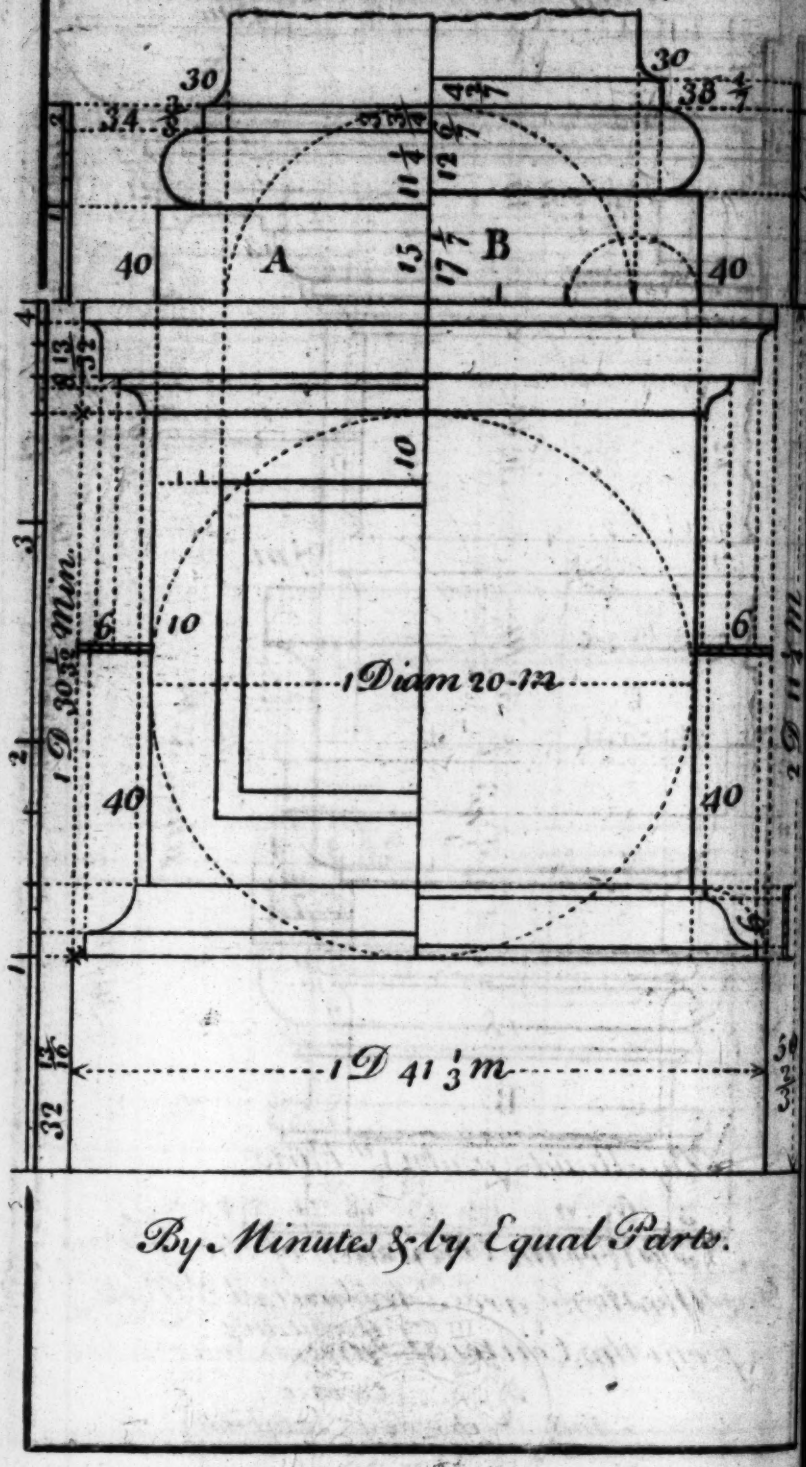
The Diameter in 24 ths

Divide the Height of the Entablature in 3 Parts

Give { 1 / 1 / 1 } to the { Architrave / Frize / Cornice }

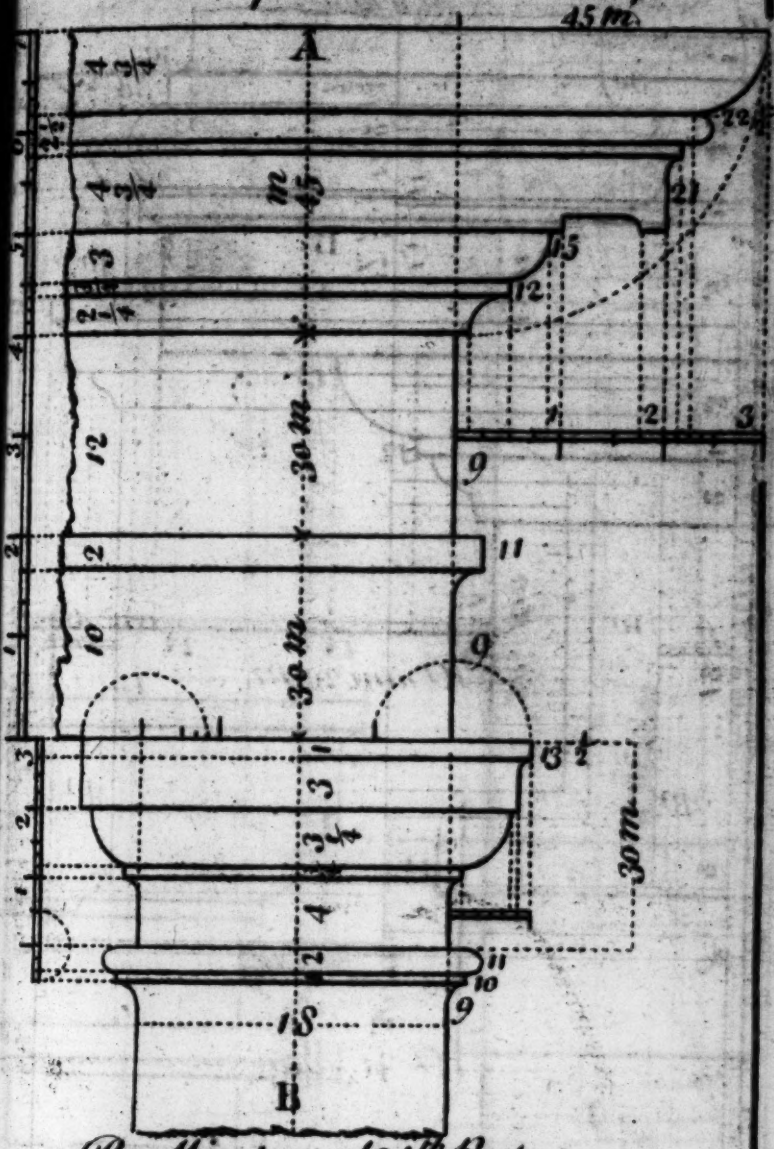
And Subdivide as Exhibited.

The Tuscan Pedestal & Base by B L.



By Minutes & by Equal Parts.

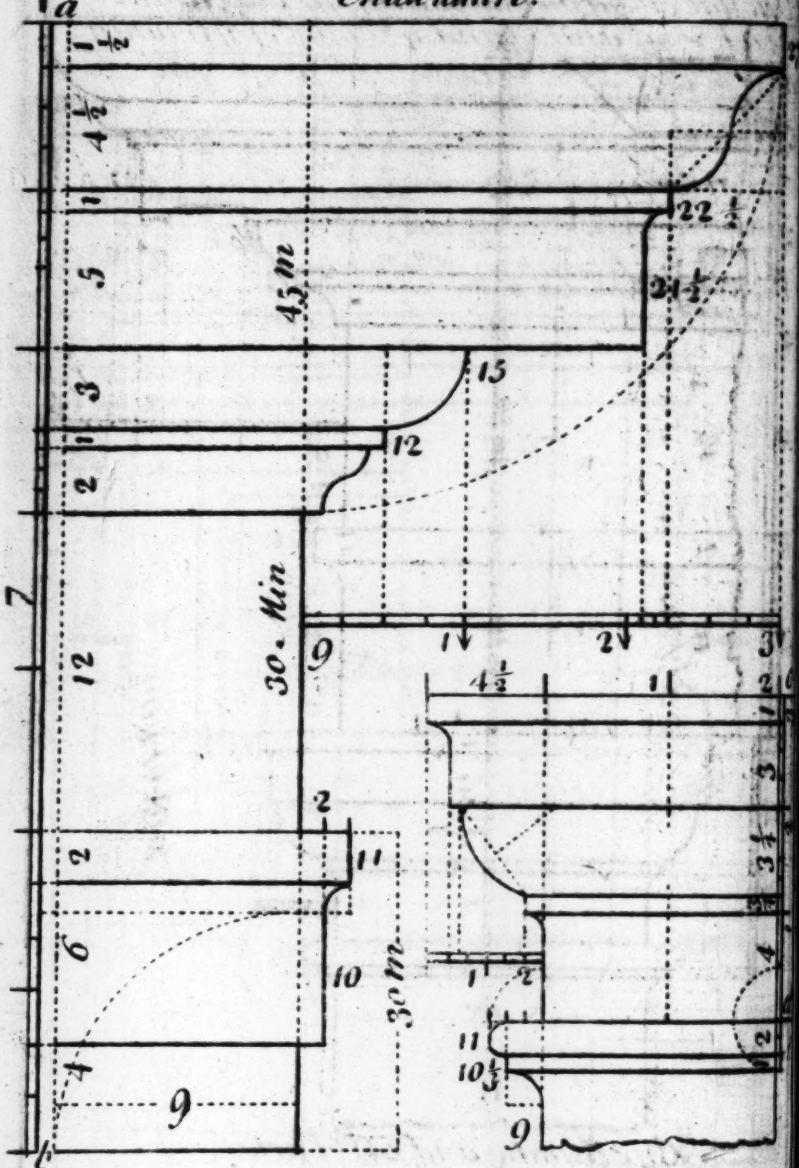
The Tuscan Capital & Entablature by B L



By Minutes and 24.th Parts.

NB Here the Projection of the Members are Accounted from the Centeral Line A B.

A Fifth variety of the Tuscan Capital and Entablature.

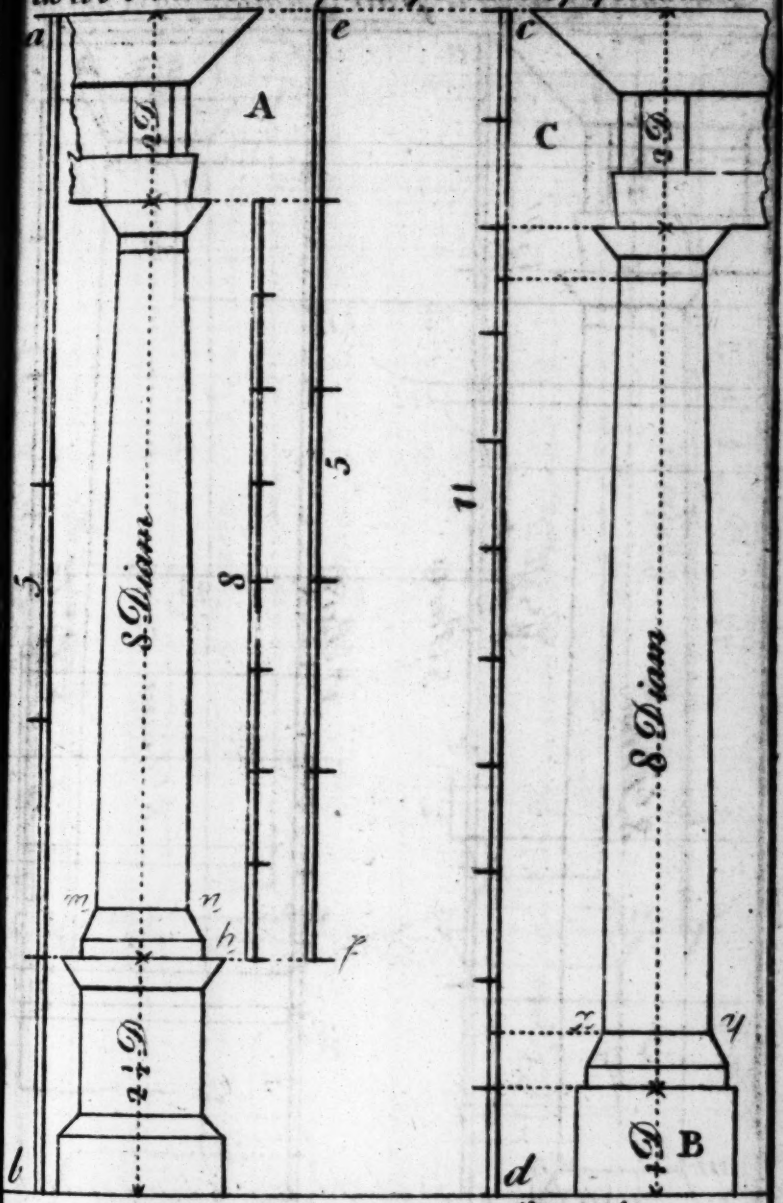


Divide { a b / c d } in { 7 / 3 } Parts as in Page 9 and Subdivide as Exhibited

NB The Measures Affixed are 24^ths and the Projections are accounted from y^e Central Line

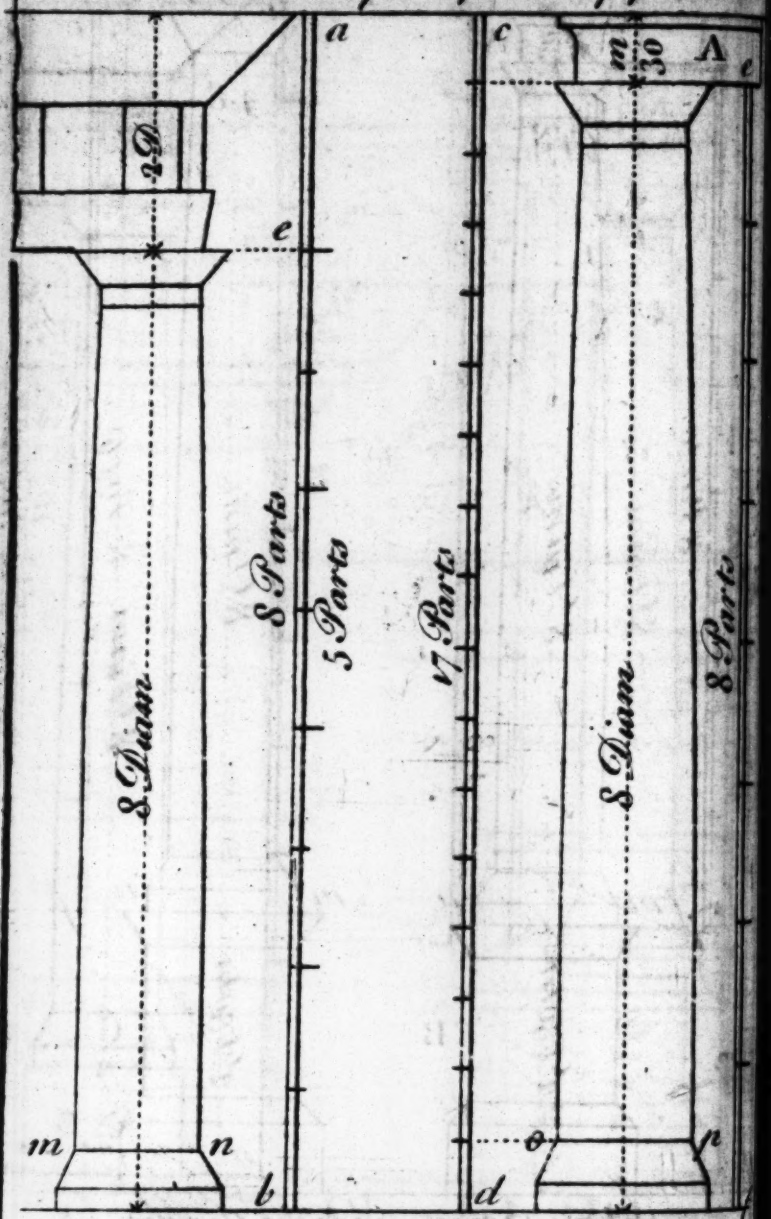
II Of the DORICK ORDER.

To Proportion ye Column & Entablature with its Pedestal or Subplinth to any given Height as a b & c d and to find ye Diam: of ye Column.



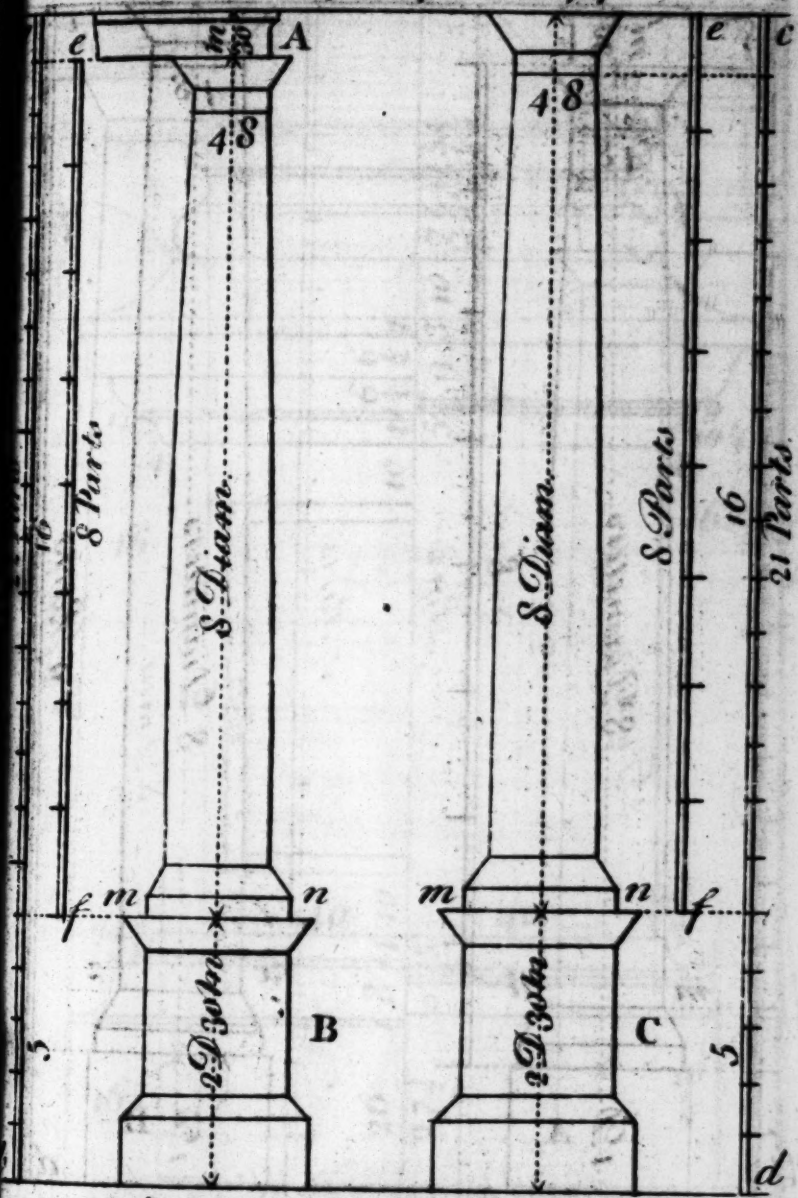
Divide { a b, e f, g h, c d } in { 5, 5, 8, 11 } Parts Give { 1, 1, 1, 1 } to the { Pedestal, Entablature, Diam m n, Subplinth B, 2 to the Entab C. 8 to ye Col. D. and 1 is the Diam x y.

To Proportion the Dorick Column with its Architrave, or Entablature to any Height, as a b, or c d, and to find ye Diam: of ye Column



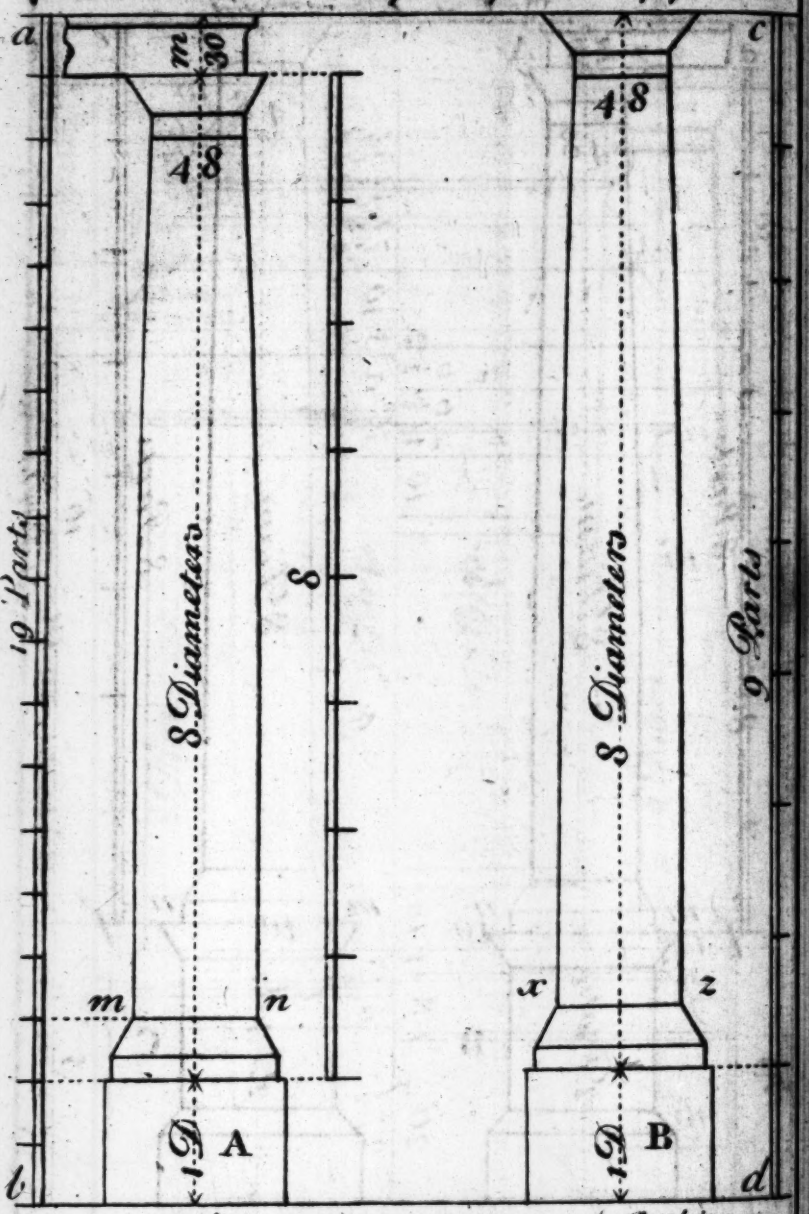
Divide { a b / e b / c d / e f } in { 5 / 8 / 17 / 8 } Parts Give { 1 / 1 / 1 / 1 } to the { Entablature / Diam: m: n. / Architrave A / Diam: o. p. }

To Proportion the Dorick Column & Pedestal w.th or without its Architrave to any Height, as a b or c d, and to find the Diam.r of the Column.



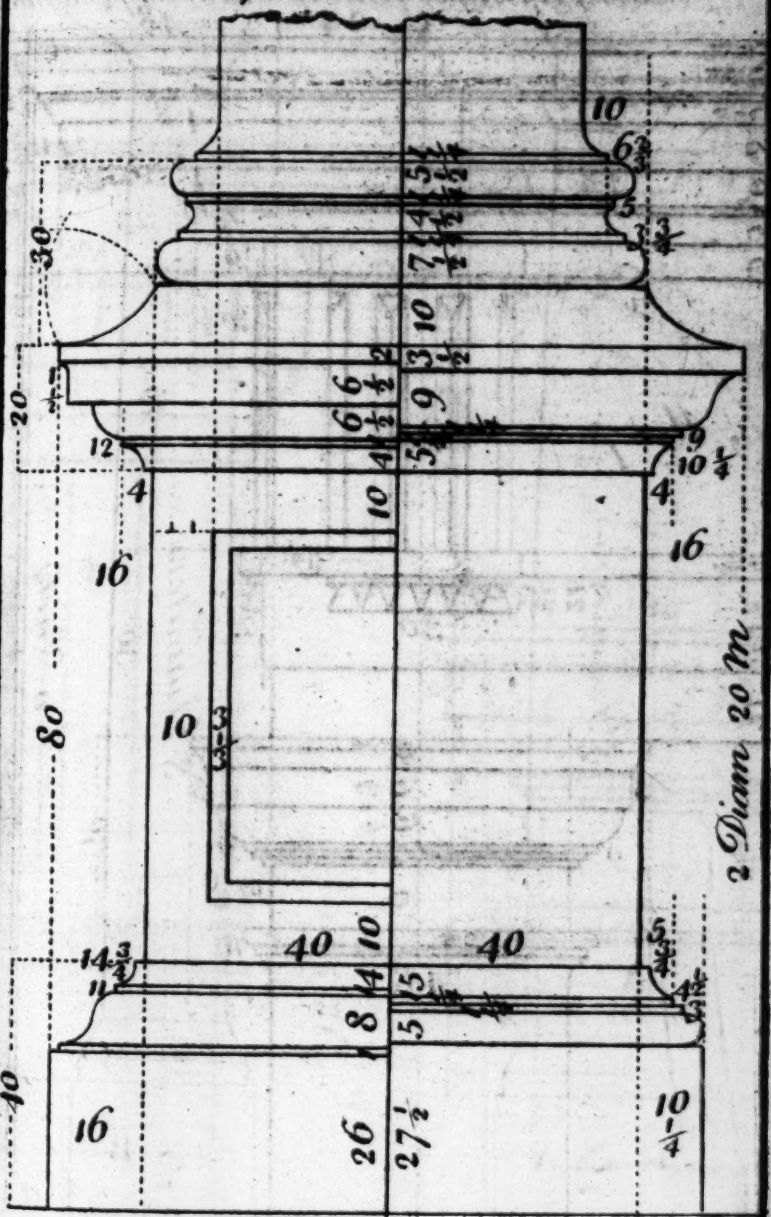
Divide { a b / c d / e f } in { 22 / 21 / 8 } Parts { Give 1 to the Architrave A. / and 5 to the Pedestal B. / 3 to the Pedestal C. / 1 to the Diam. m. n. }

To Proportion the Dorick Column & Subplinth with or without its Architrave to any Height, as. a b or c d and to find y^e Diam of y^e Column



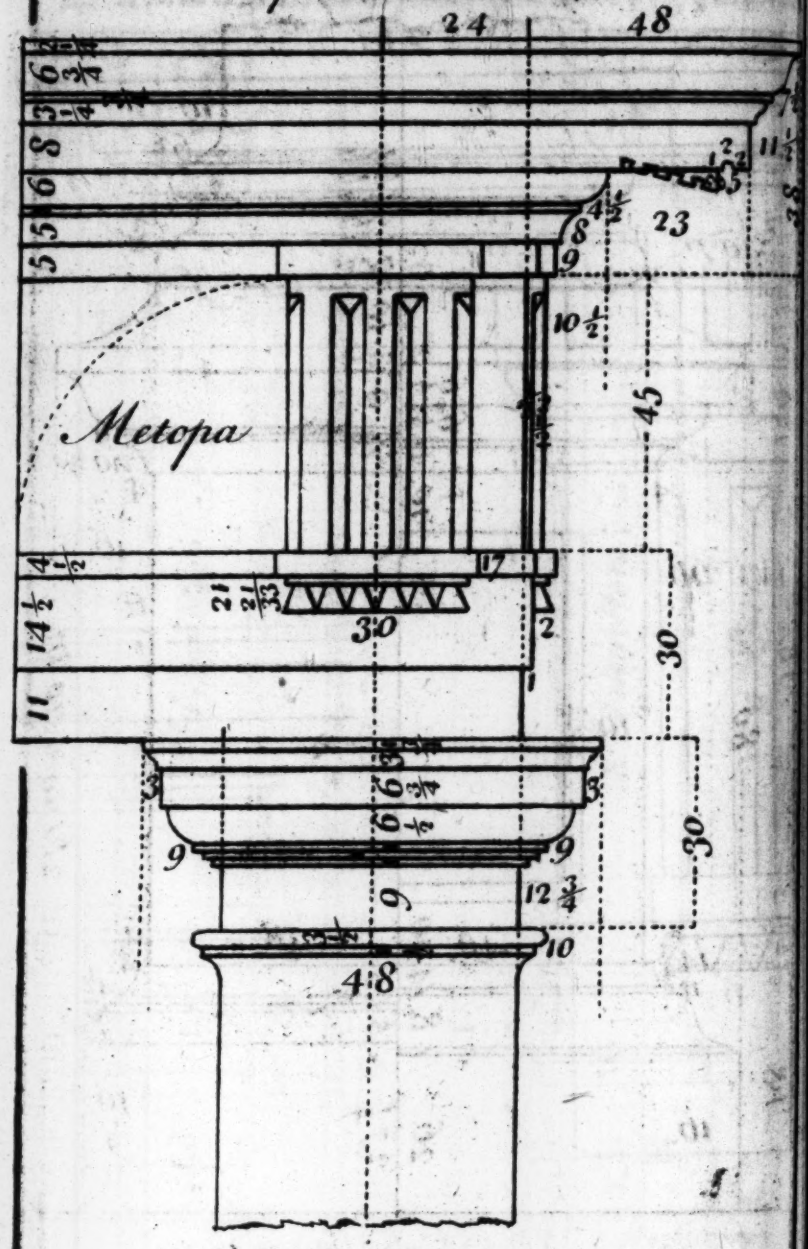
Divide { a b / c d } in { 19 / 9 } Parts { Give 1 2 2 1 1 } to the { Architrave, Subplinth A, Diam. m.n., Subplinth B, Diam. x. z. }

The Dorick Pedestal & Base of ye Column By A Palladio.



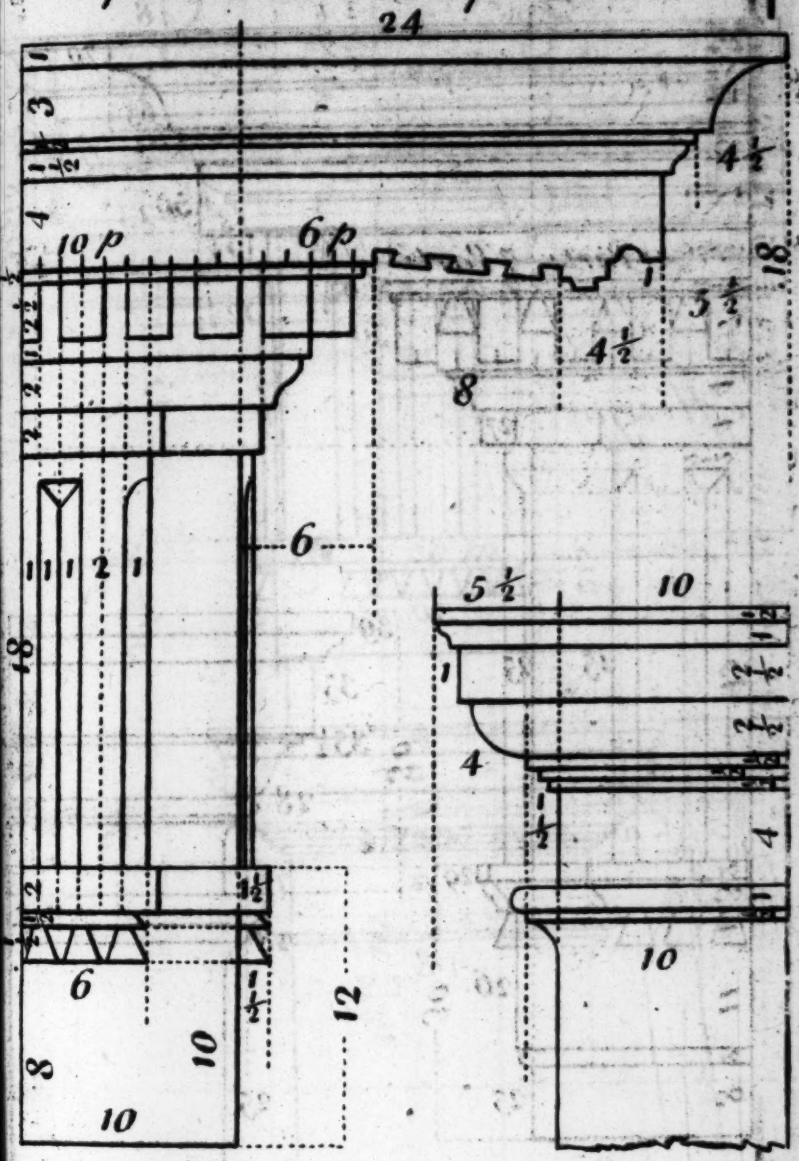
By Minutes

The Dorick Capital & Entablature
By Andrea Palladio.



By Minutes

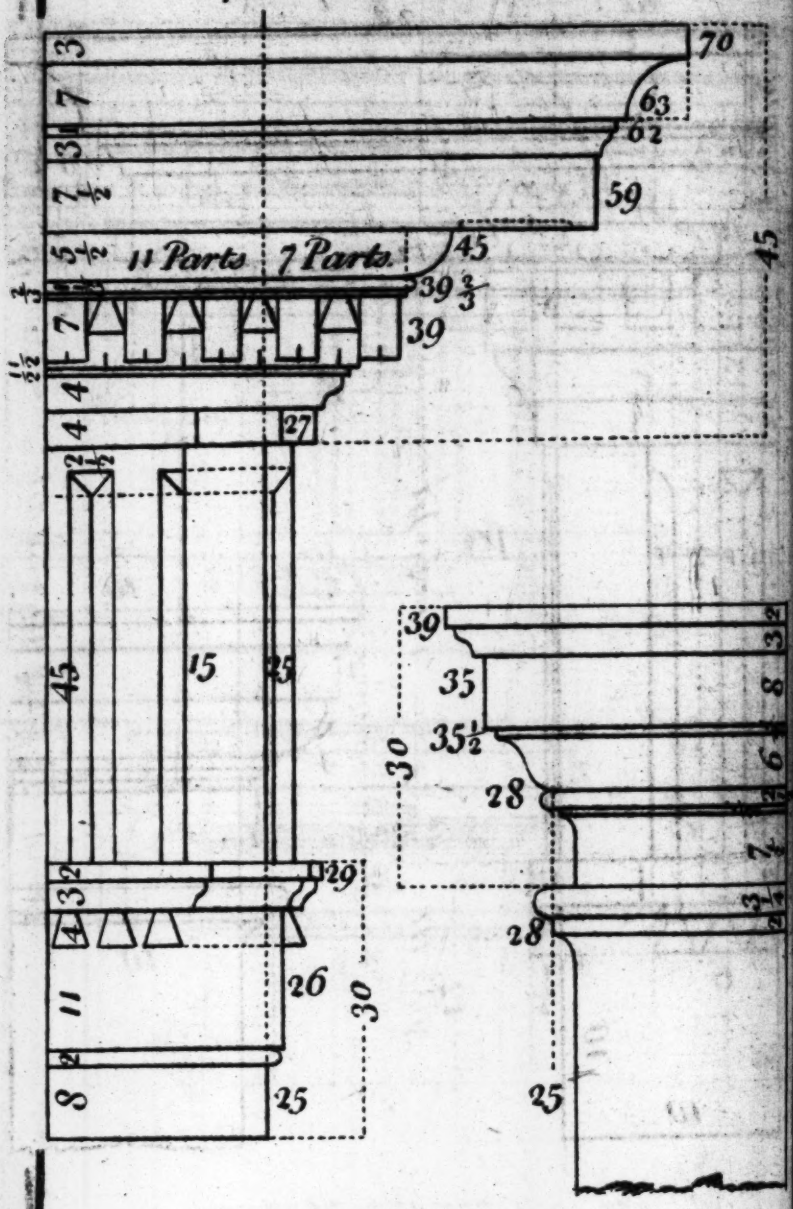
The Dorick Capital & Entablature
By Iacomo Barozzio of Vignola.



By 24.th Parts

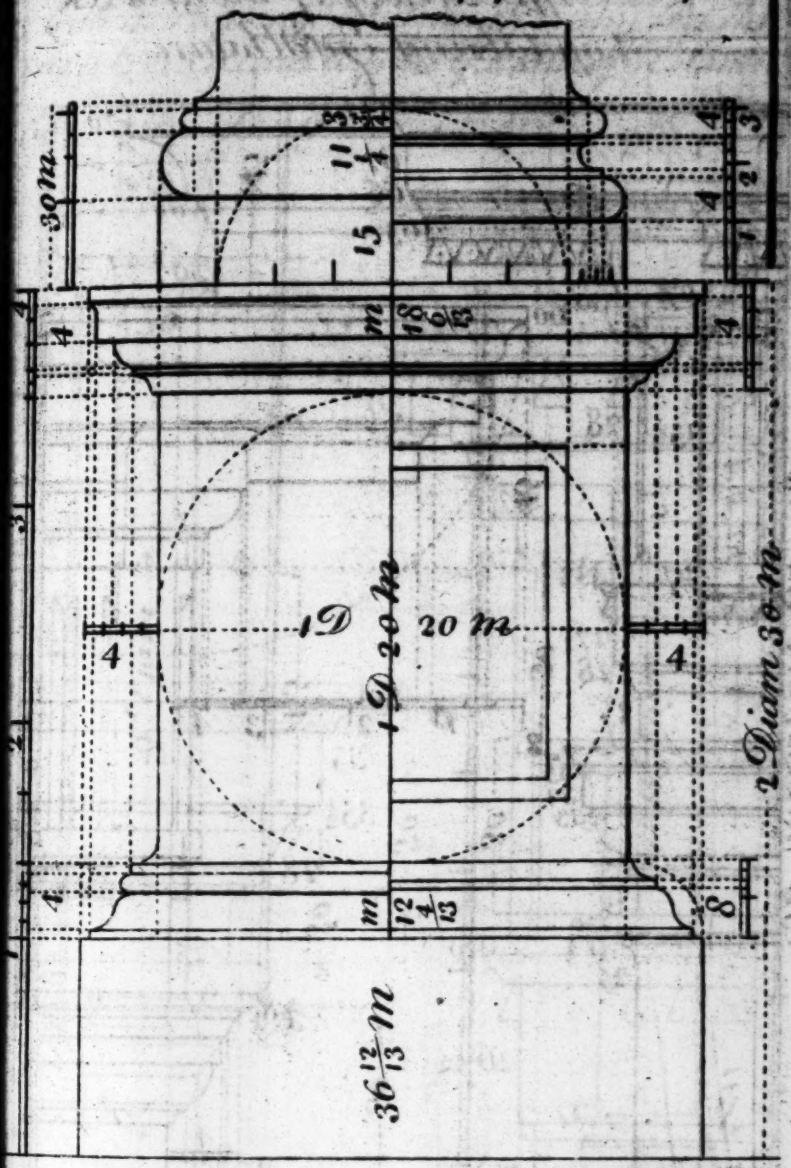
For y Base of the Column. vide Page 64.

A Fifth Variety of the Dorick Capital and Entablature.



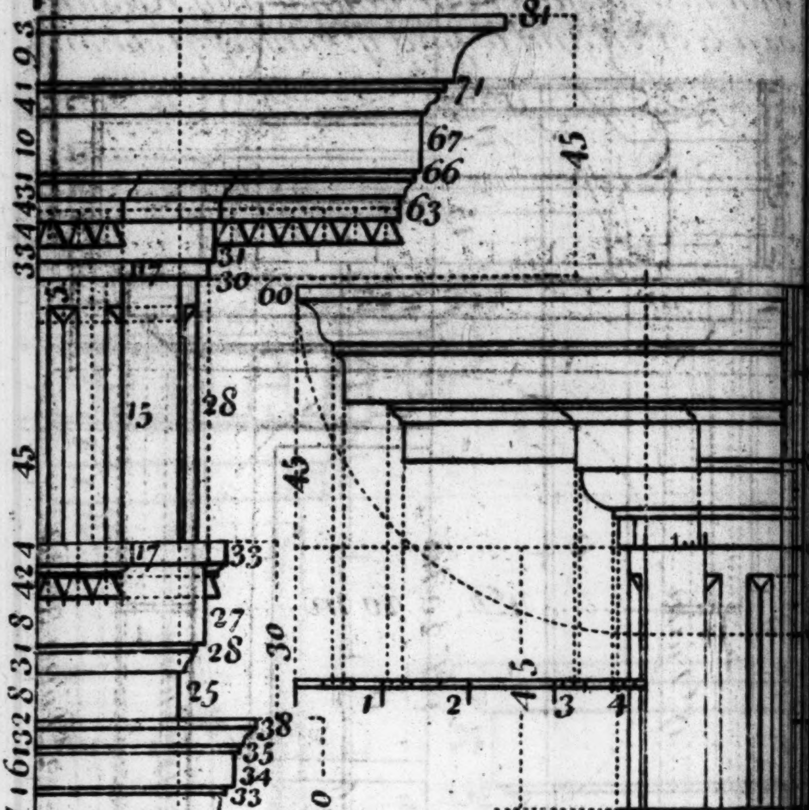
By Minutes.

The Dorick Pedestal & Base of y^e Column by R.L.



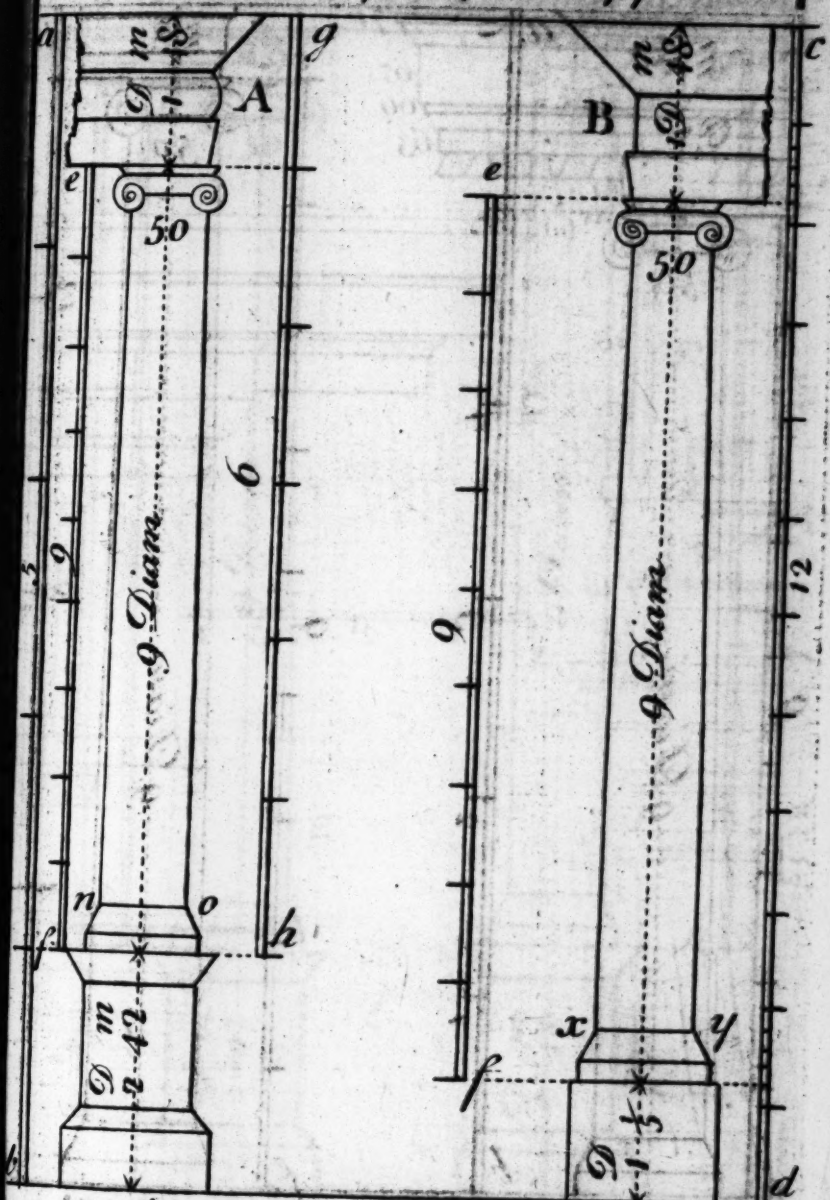
By Minutes & Equal Parts.

Two Varieties of Dorick Capitals & Entablatures



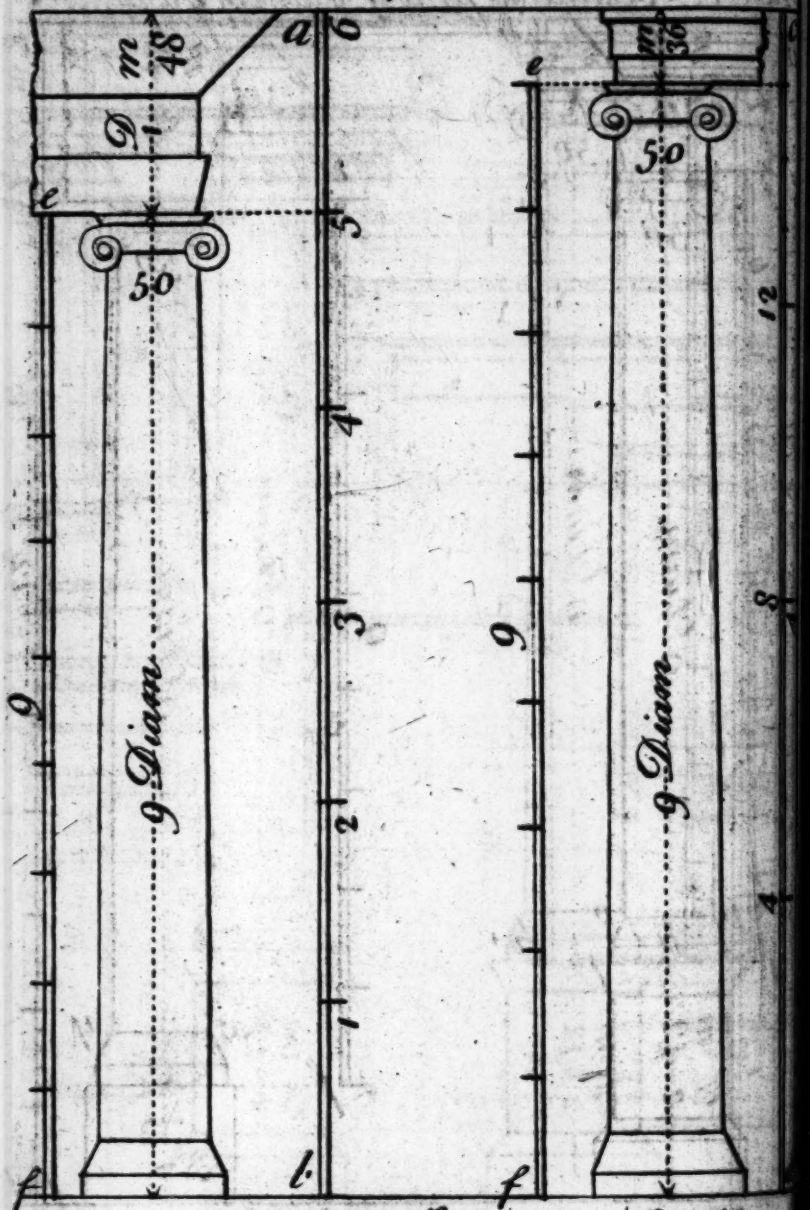
By Minutes & Equal Parts.

To Proportion ye Ionick Column & Intablature with its Pedestal or Subplinth to any Height, as a b, or cd, and to find ye Diam. of ye Column



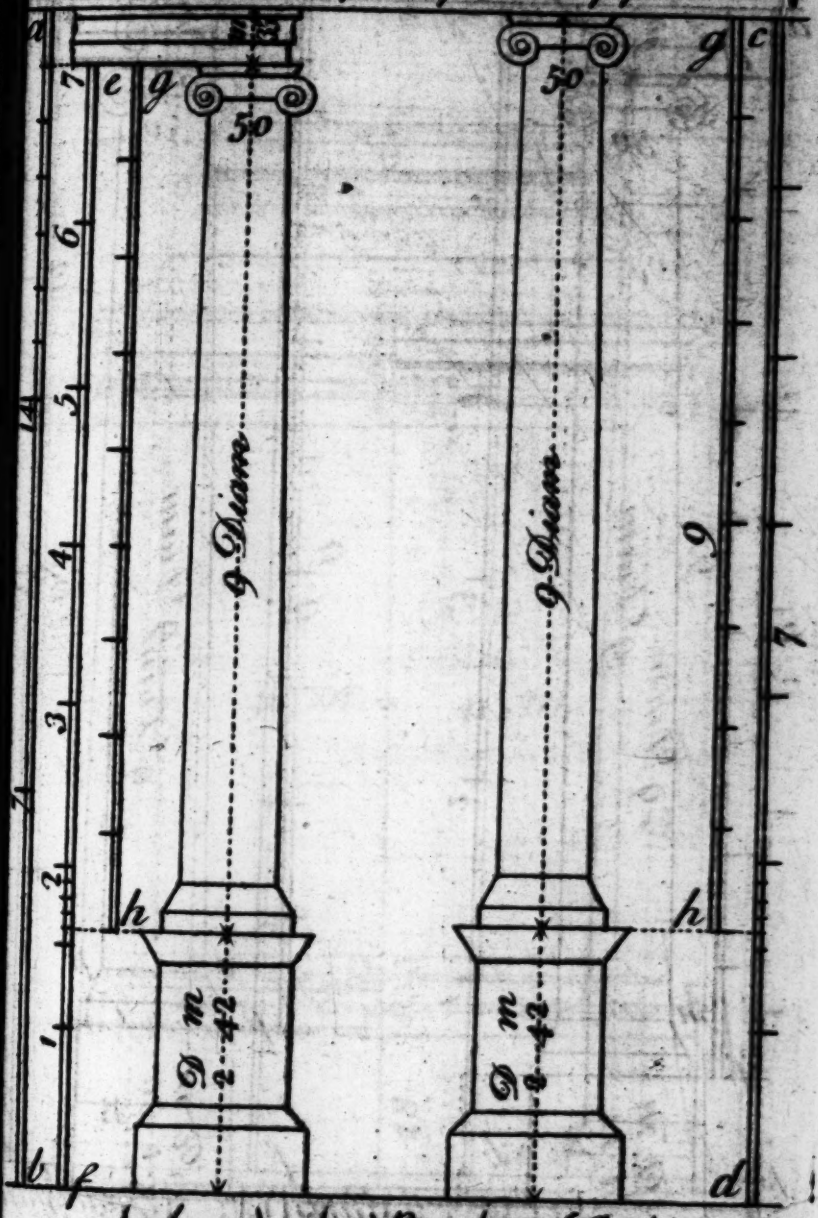
Divide { ab, gh, cd, ef } in { 5/6, 12, 9 } Parts { 1, 1, 1 1/3, 1 4/5, 1 } Give to the { Pedestal, Intablature A, Subplinth, Intablature B } & each Diam. n o z x y.

To Proportion the Ionick Column with its Entablature or Architrave to any Height as a b or c d and to find y^e Diam of y^e Column



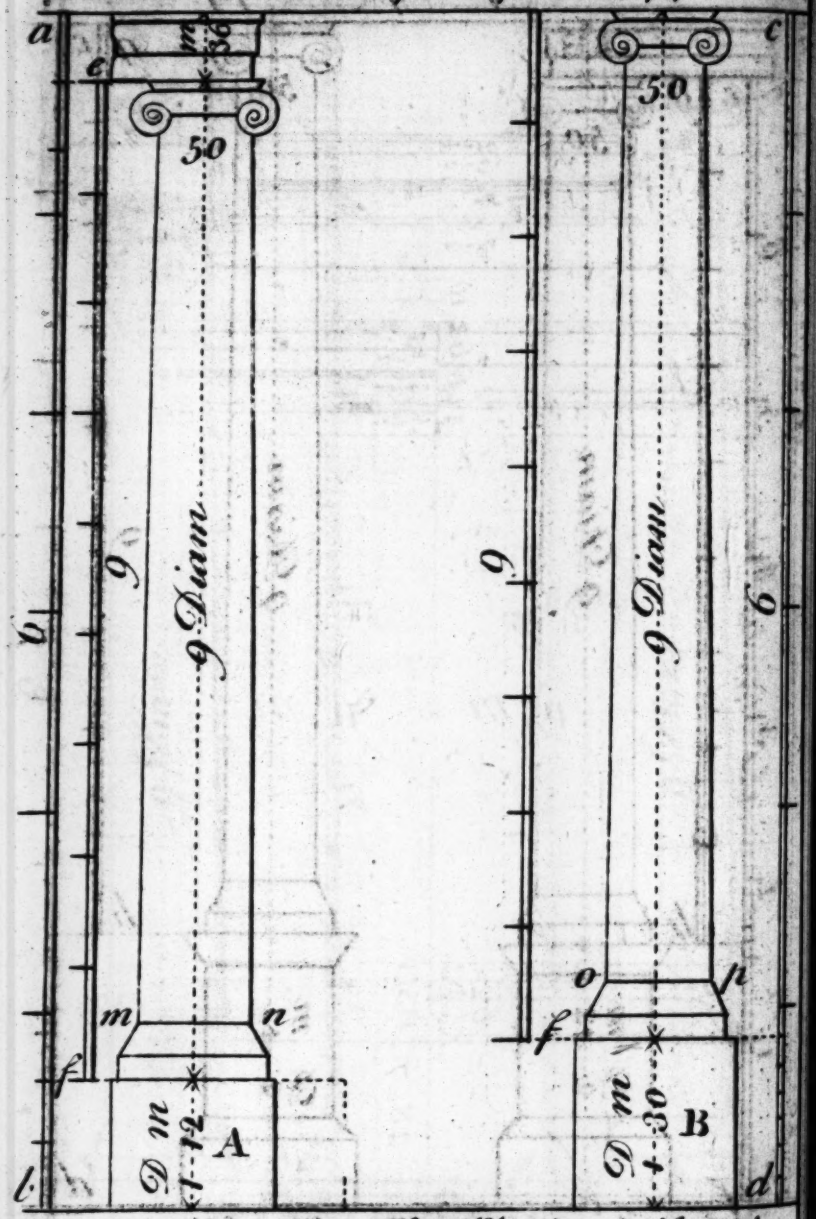
Divide { a b / c d / e f } in { 6 / 16 / 9 } Parts Give { 1 / 1 / 1 } to y^e { Entablature / Architrave / Diameter.

To Proportion the Ionick Column & Pedestal with or without its Architrave to any Height as a b, & c d, and to find ye Diam of ye Column



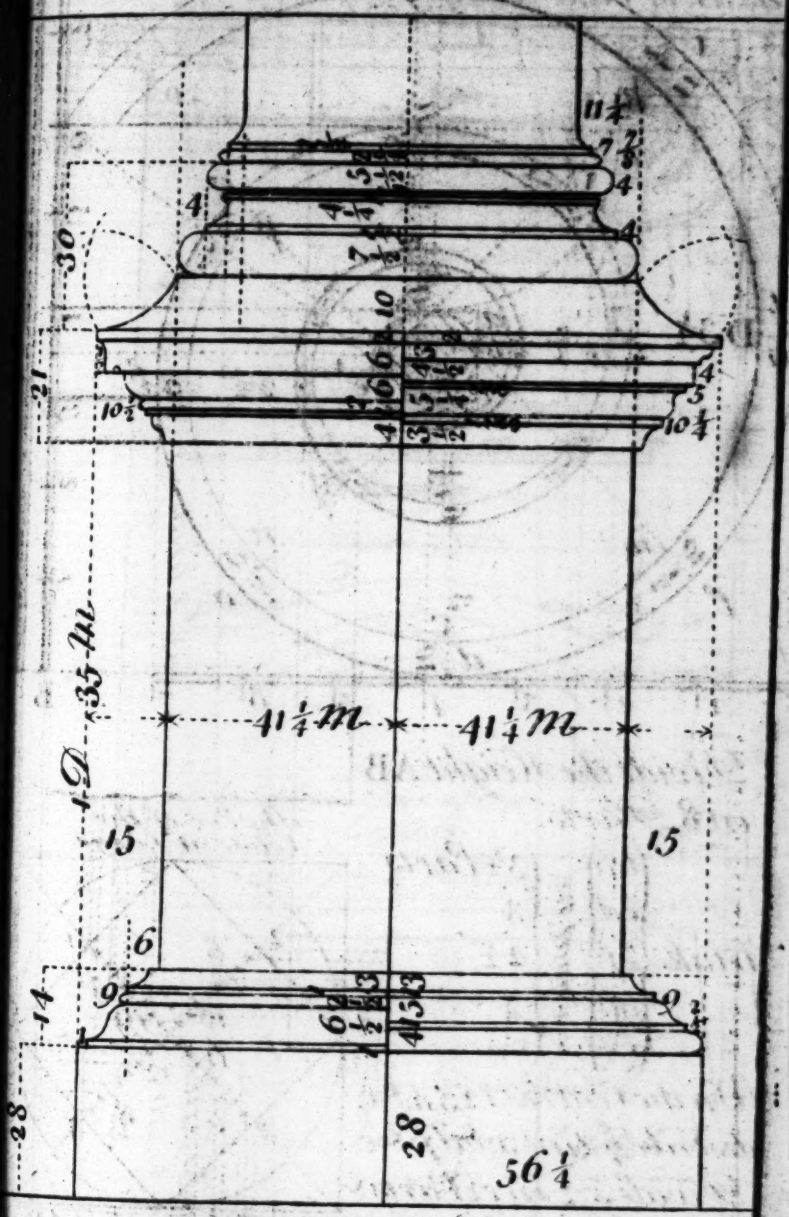
Divide { ab, cd & ef, gh } in { 21, 7, 9 } Parts Give { 1 to ye Architrave, 6 to ye Pedestal, 1 to the Diam.

To Proportion the Ionick Column & Subplinth with & without its Architrave to any Height as ab or cd, and to find ij Diam. of ij Column



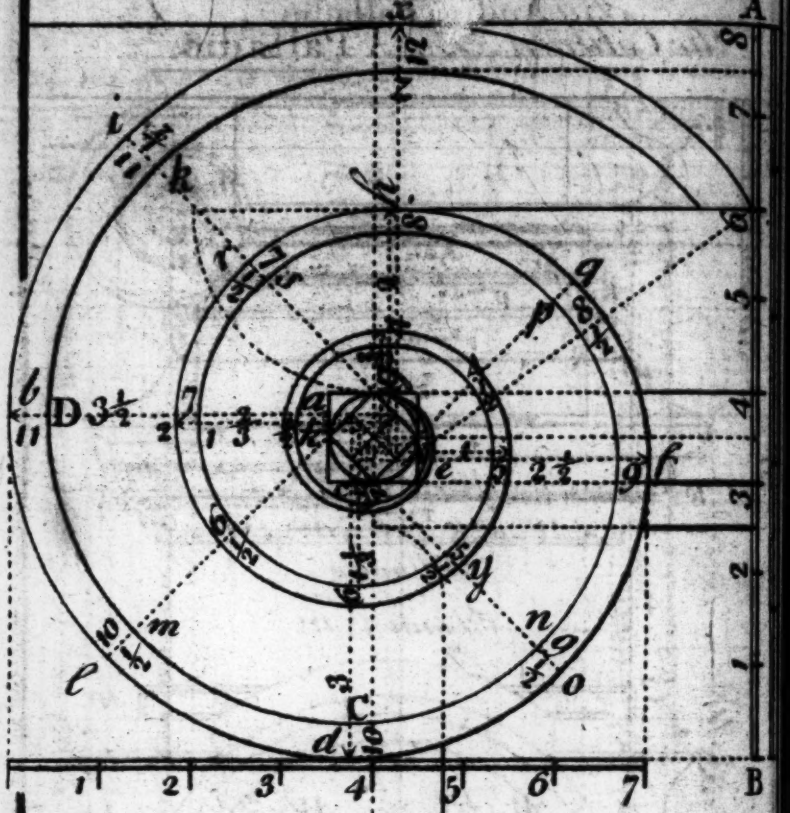
Divide { ab, cd, ef } in { 6, 6, 9 } Parts { ⅓ to Plinth A and ⅓ to the Architrave; ⅔ to Plinth B; 1 to each Diam m n, o p }

The Ionick Pedestal & Base of the Column. By A Palladio.



By Minutes.

The Ionick Volute.



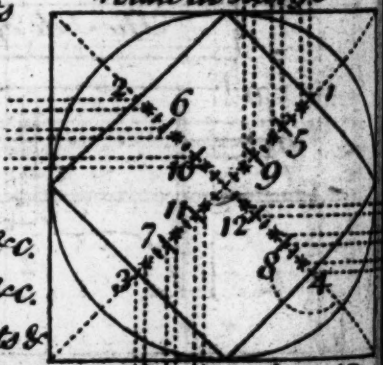
Divide the Height AB in 8 Parts.

Make { b a, c d, e f, g h, &c } Equal to { 3½ Parts, 3, 2½, 2, &c }

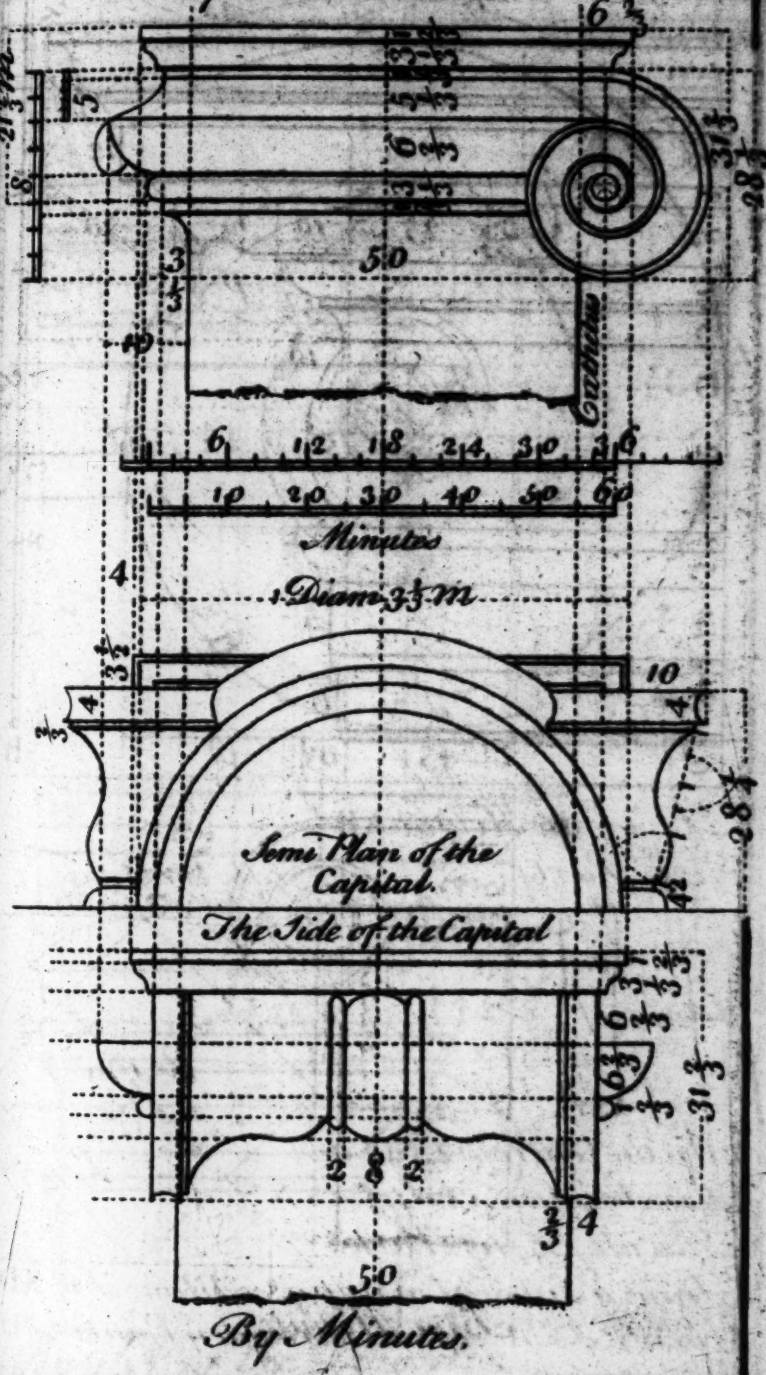
On the Centres 1, 2, 3, 4, &c. describe y^e Line x, b, d, f, &c.

Divide x, z, in 12 Parts & draw y^e Lines i, k, l, m, n, o, p, q, &c. Make i h 11½ b D, l, m 10½, d C 10 &c. And through y^e Points z k D m C &c. describe y^e inside Line on y^e Centres * * * &c.

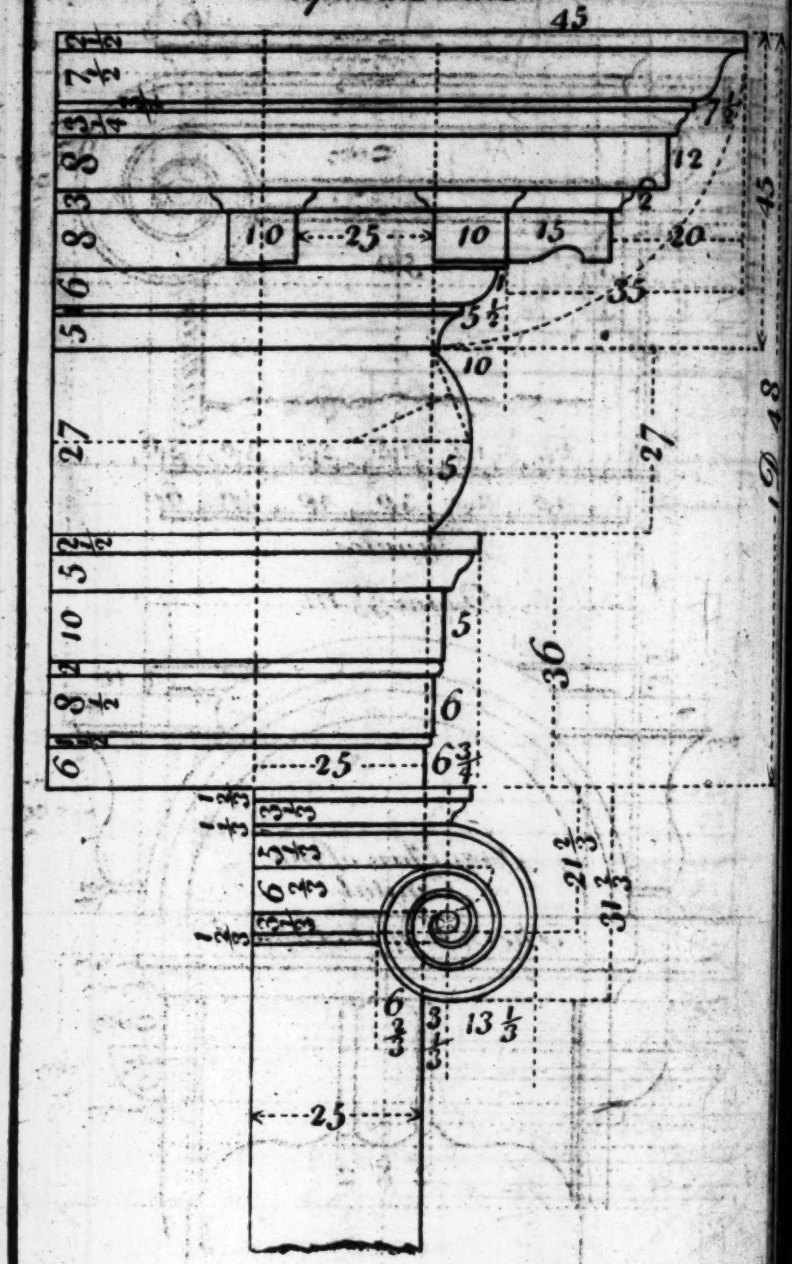
The Eye of the Volute at Large



The Ancient Ionick Capital By Andrea Palladio.

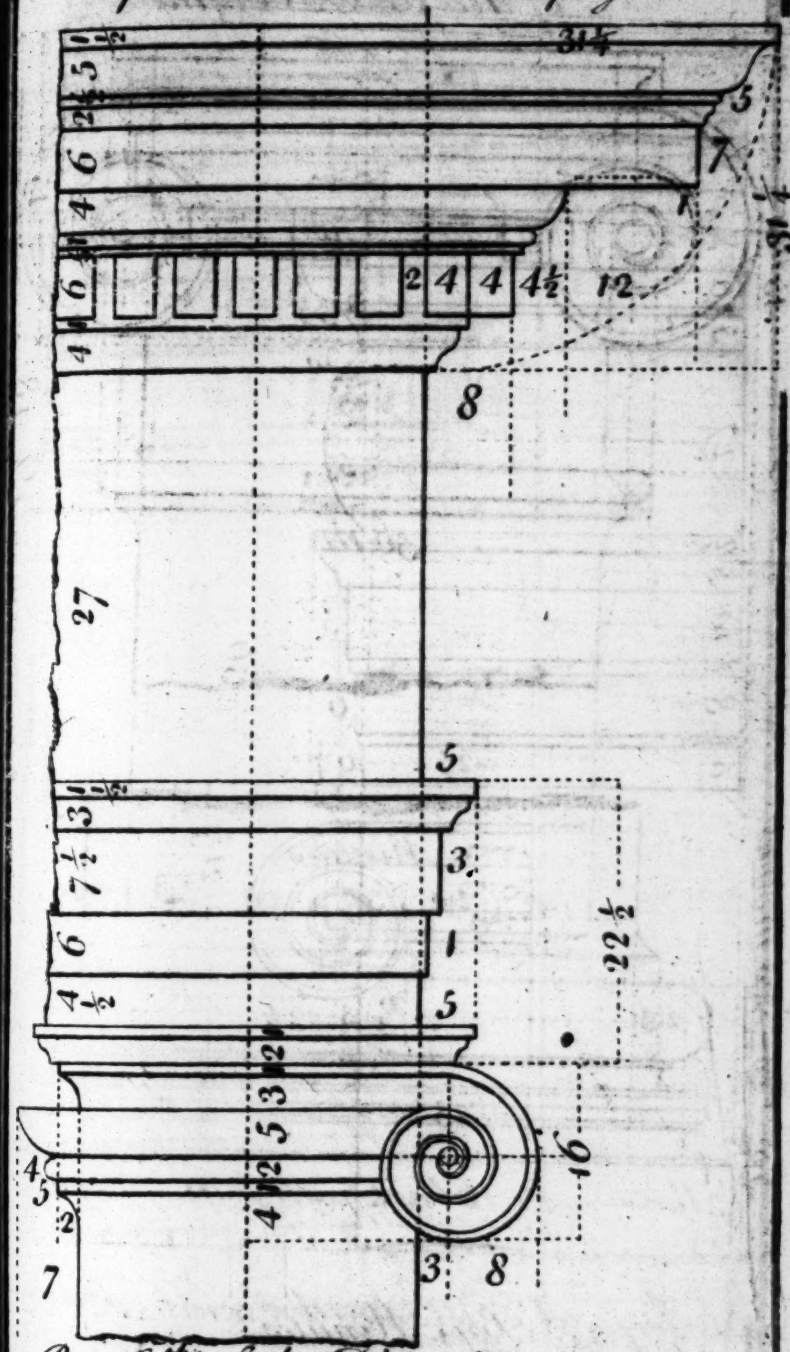


The Ionick Capital and Entablature, By A Palladio.

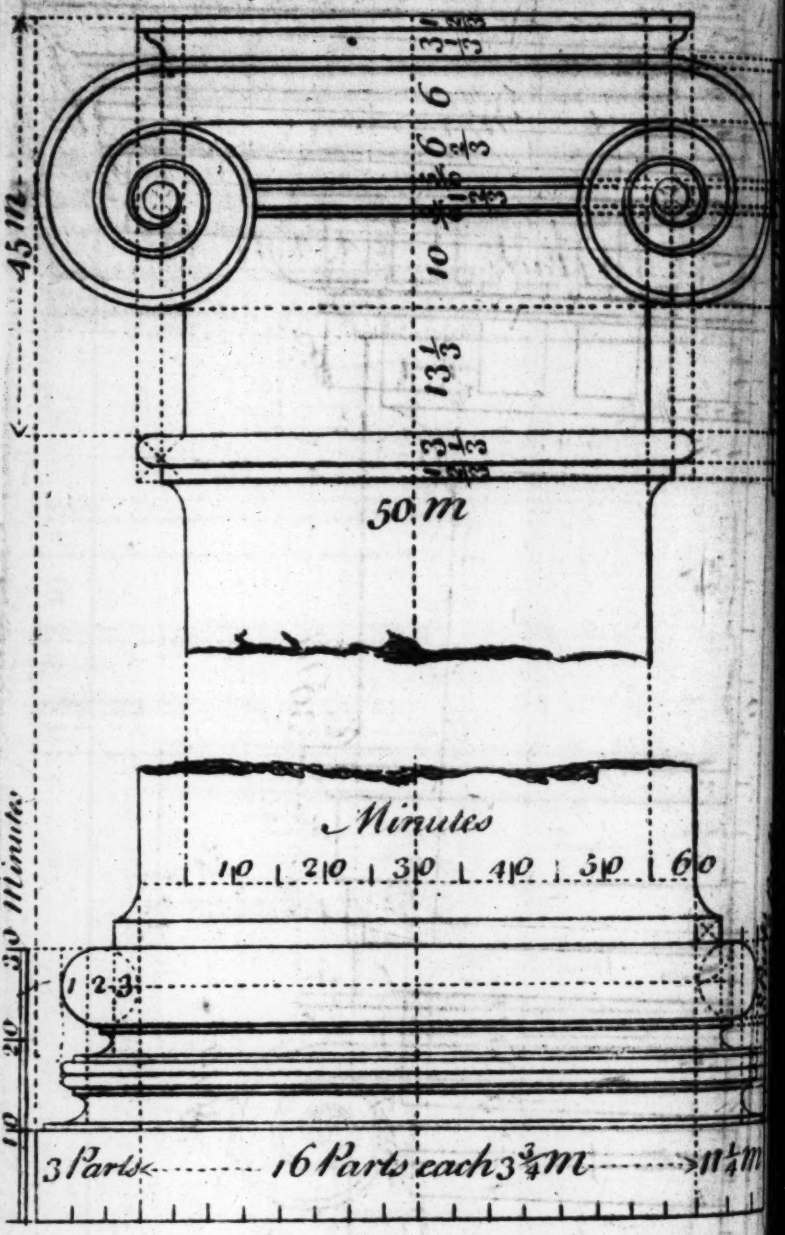


By Minutes

The Ionick Capital and Entablature By GIACOMO BAROZZIO of Vignola

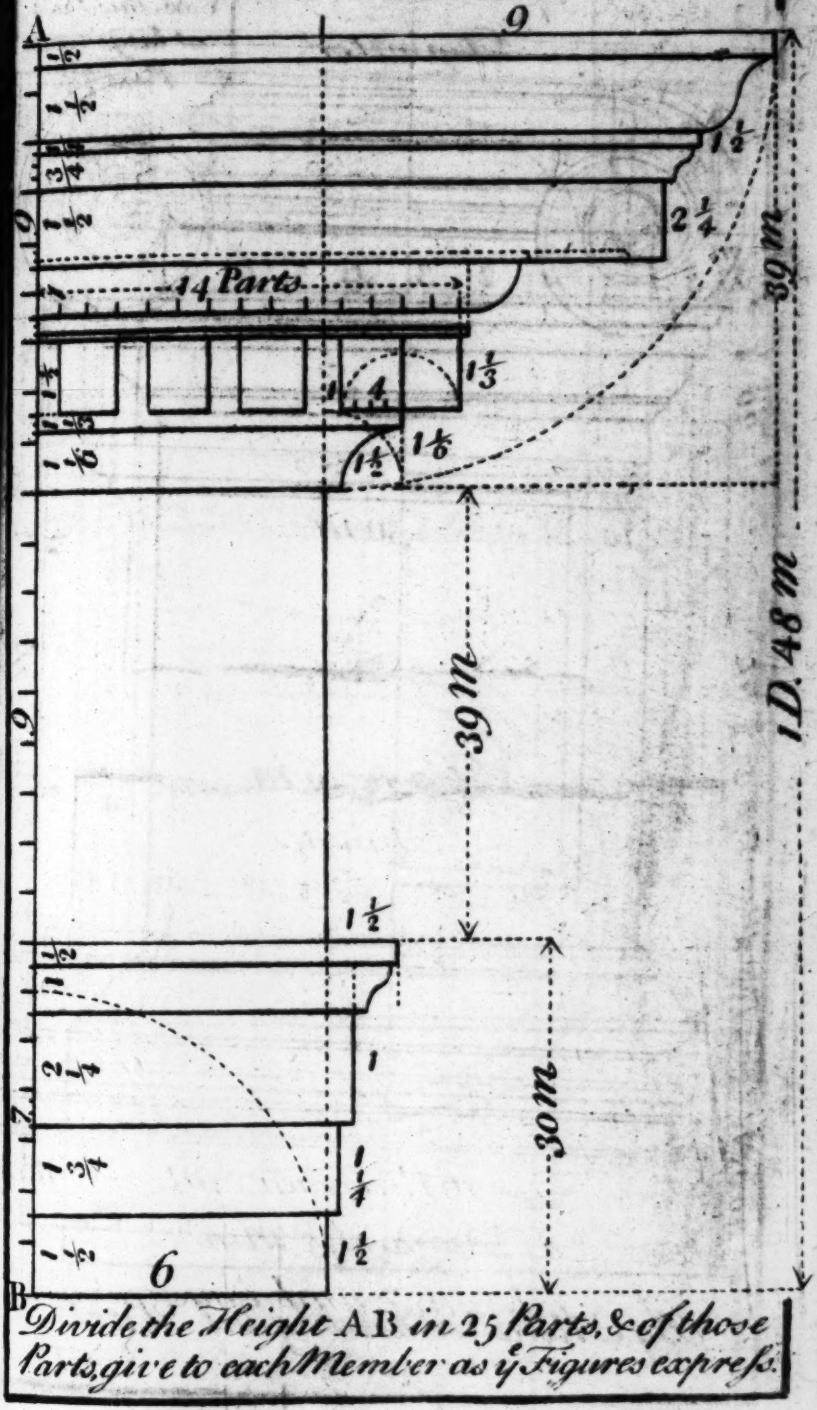


The Vitruvian Base and Capital of the Ionick Column.

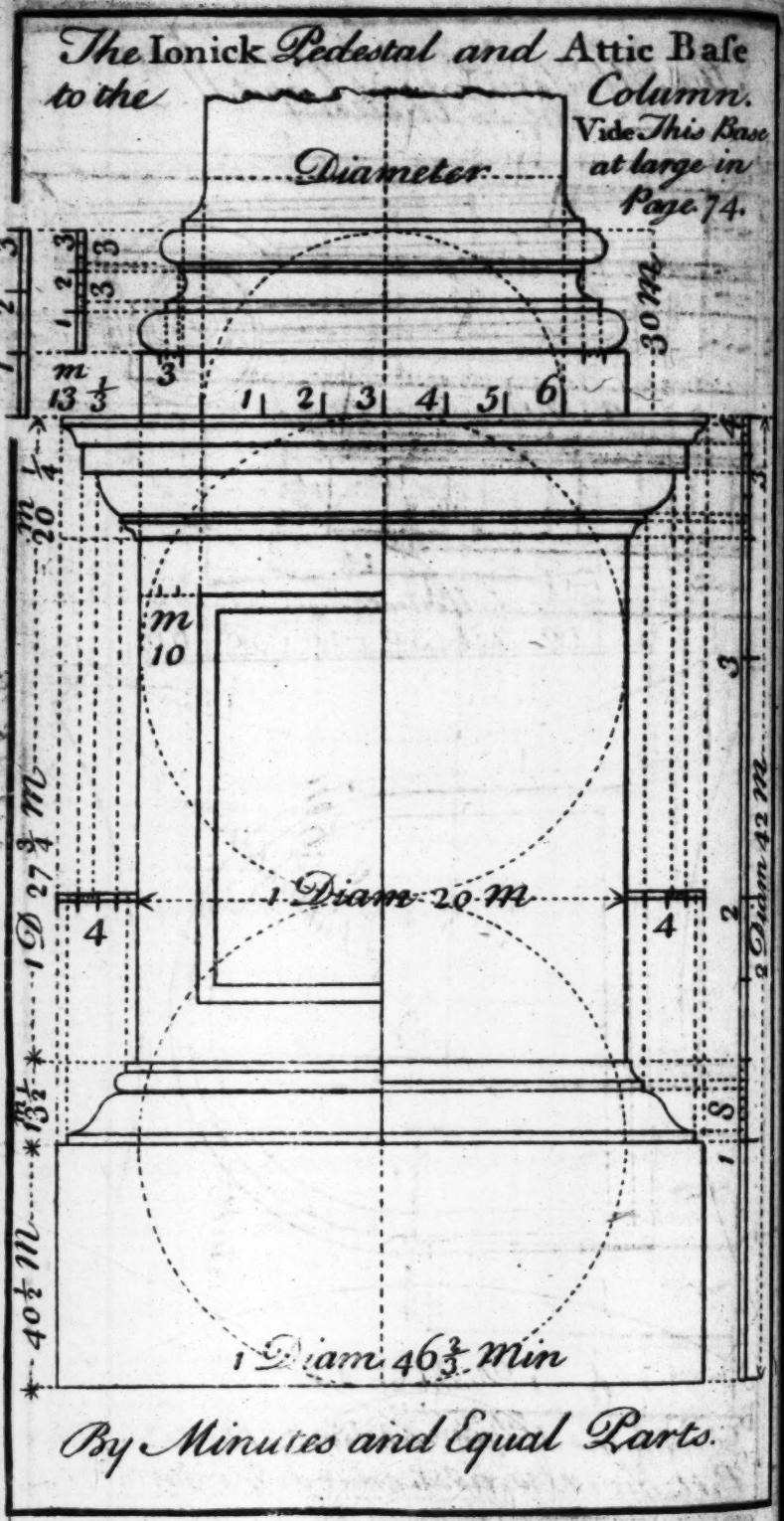


By Minutes and Equal Parts

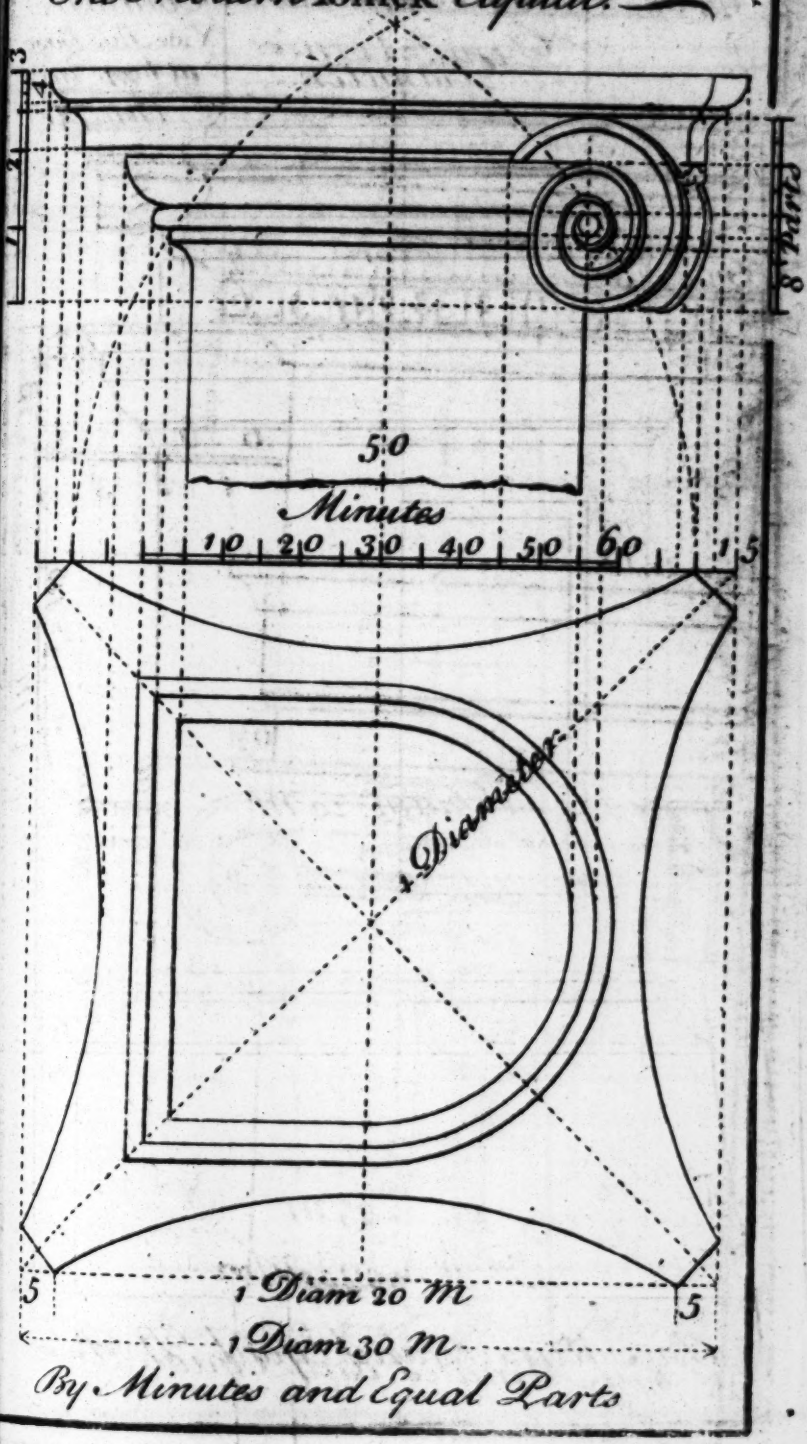
An Ionick Entablature from the Ancients.



Divide the Height AB in 25 Parts, & of those Parts, give to each Member as y Figures express.

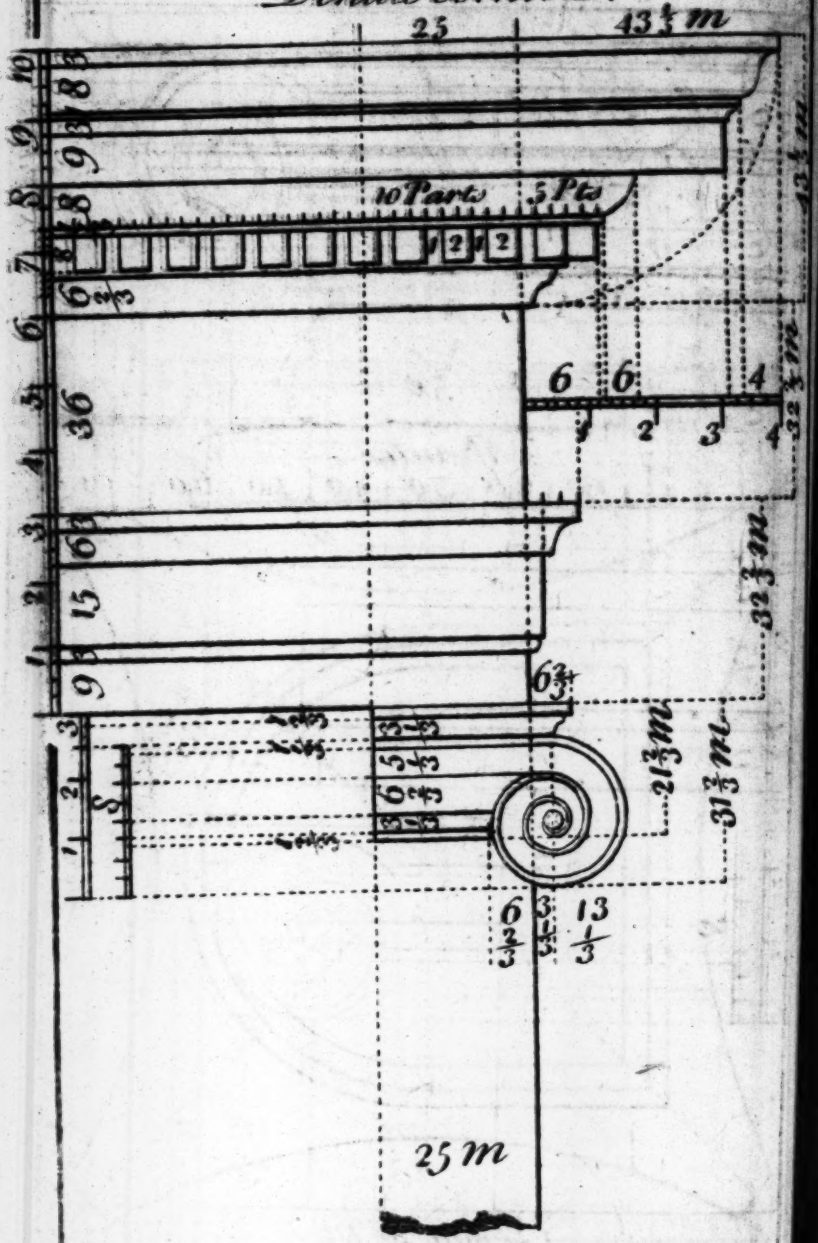

The Ionick Pedestal and Attic Base to the Column.
Vide This Base at large in Page 74.
Diameter
30 M
m 13 1/3
1 2 3 4 5 6
m 20 1/4
m 10
1 D 27 3/4 m
1 Diam 20 m
4
4
2 Diam 12 m
1 Diam 46 2/3 Min
40 1/2 m
By Minutes and Equal Parts.

The Modern Ionick Capital.



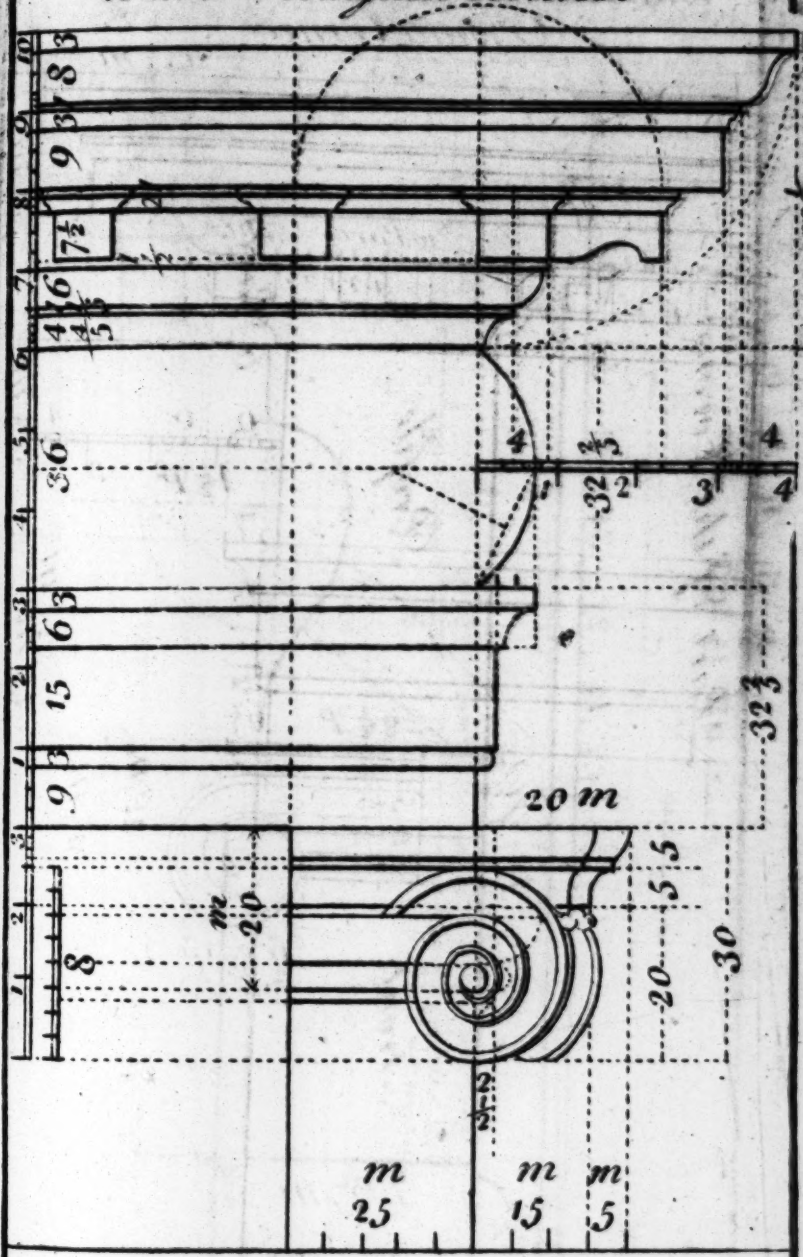
By Minutes and Equal Parts

The Ionick Entablature with a Dentile Cornice.



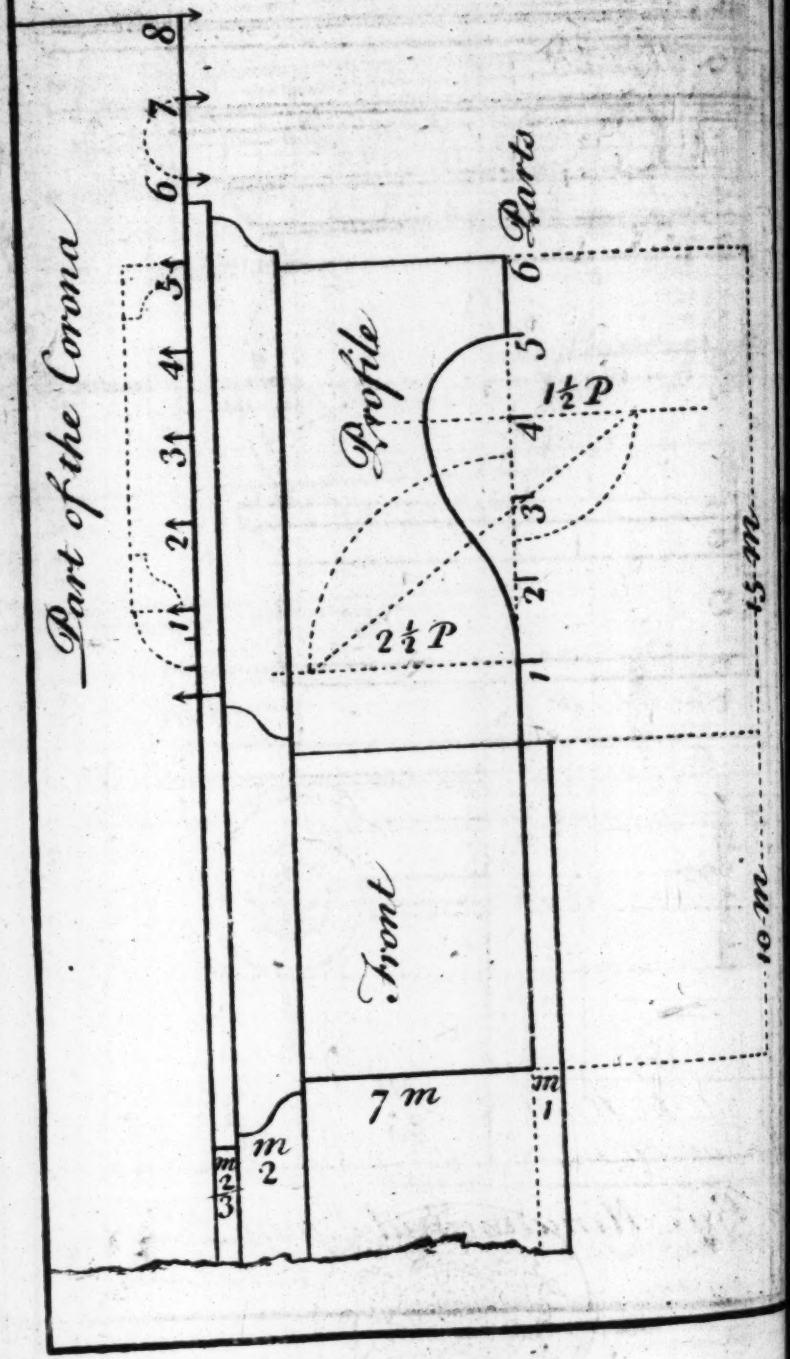
By Minutes and Equal Parts.

The Ionick Capital and Entablature with a Modiglion Cornice.

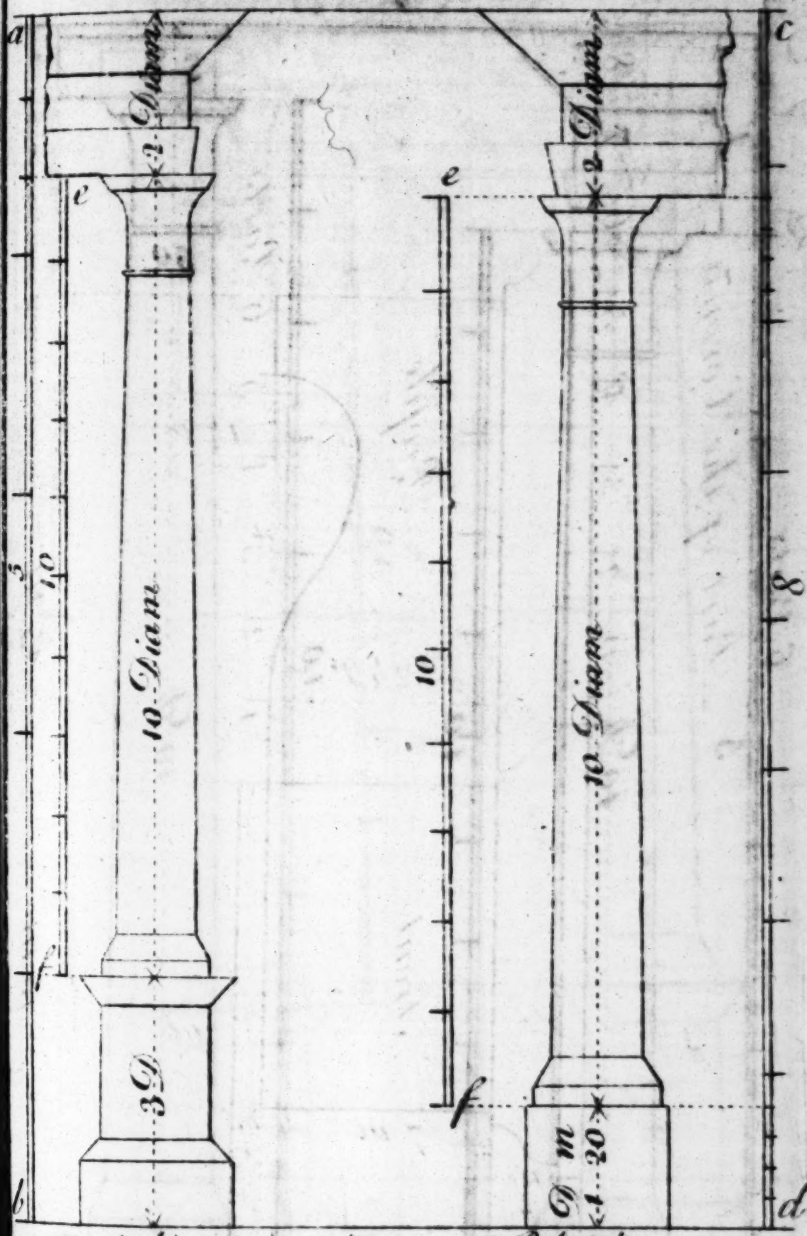


By Minutes and Equal Parts.

The Ionick Modiglion at Large

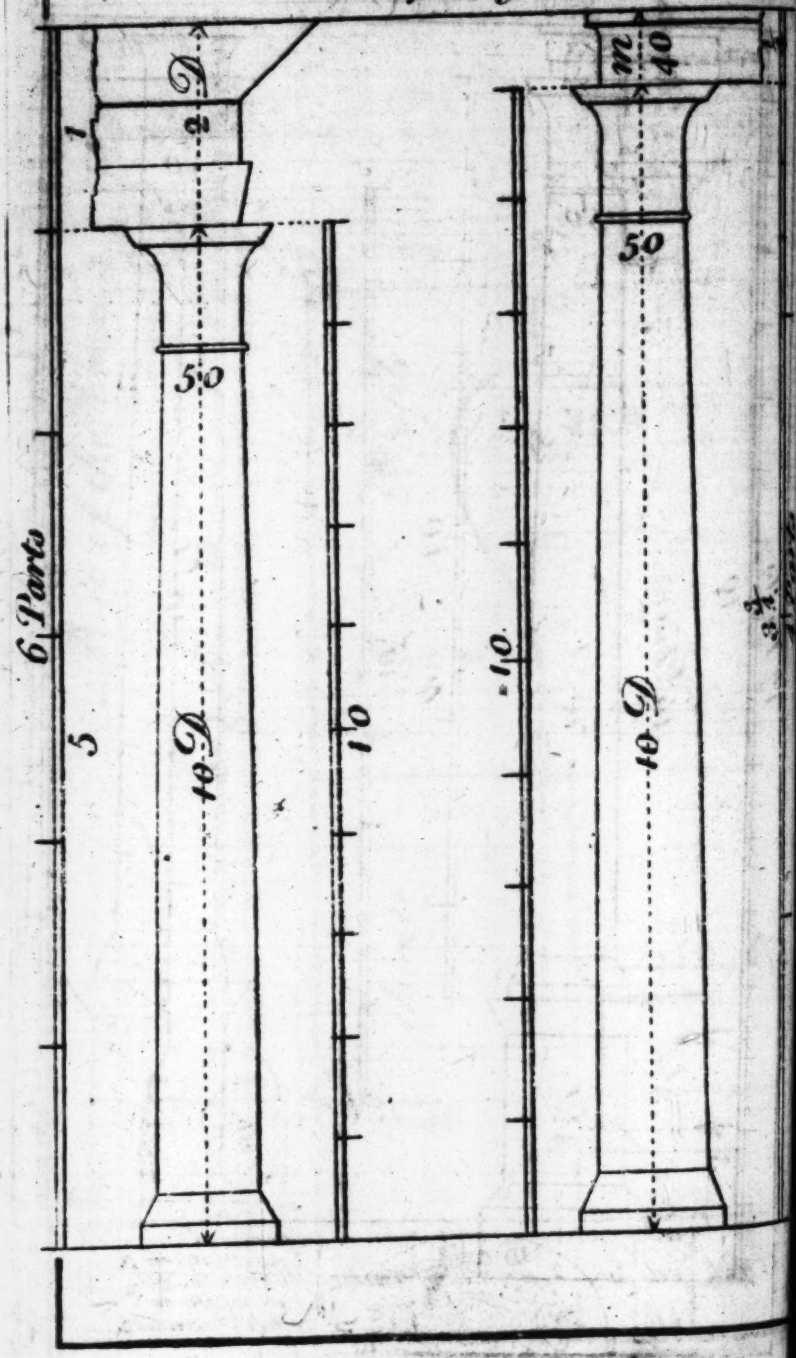


To Proportion ij Corinthian Column & Entablature with its Pedestal or Subplinth to any Height, as a b, or c d, and to find ij Diam of ij Column.

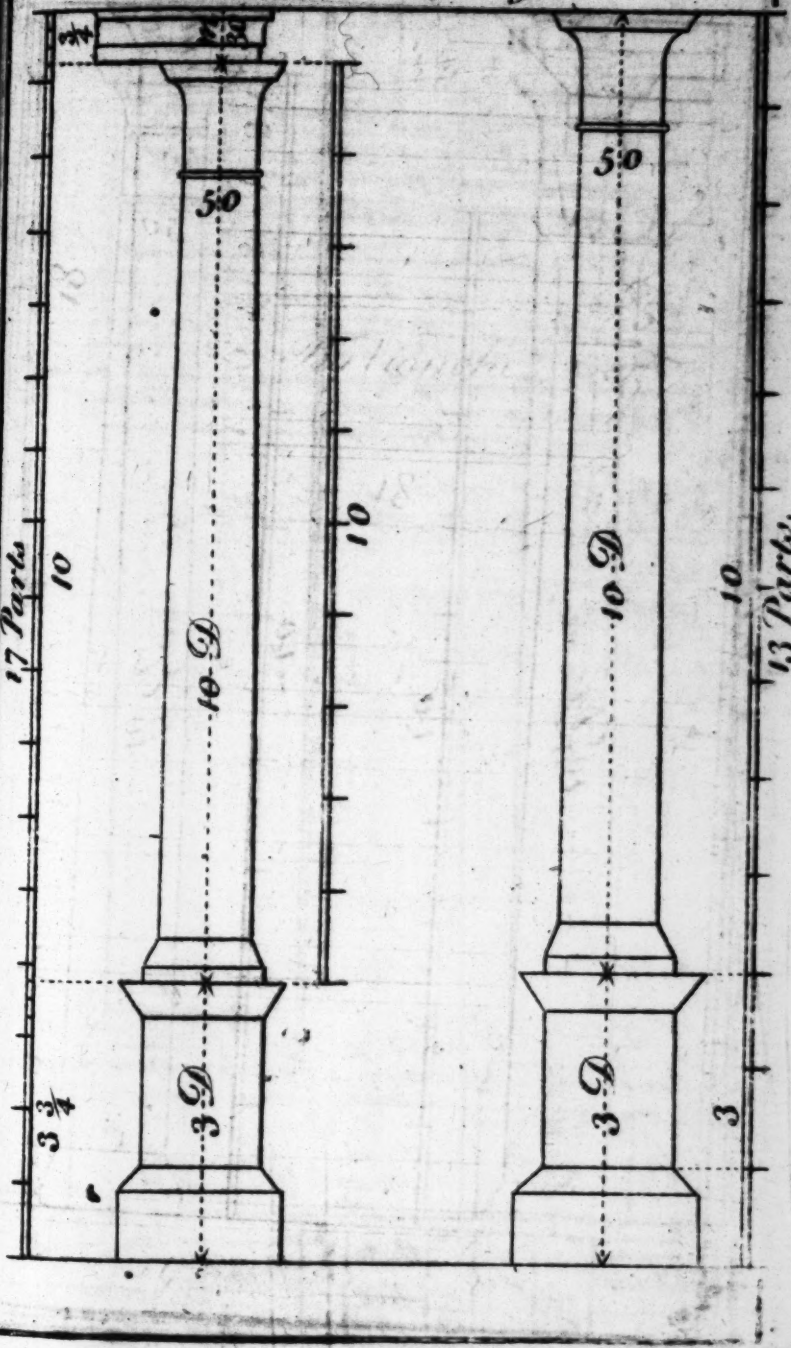


Divide { ab, cd, ef } in { 3, 8, 10 } Parts { 1⅓, 3⅓, 1, 1⅔, 1 } Give { Pedestal, Entablature A; Subplinth B; Entablature C } to the each Diameter.

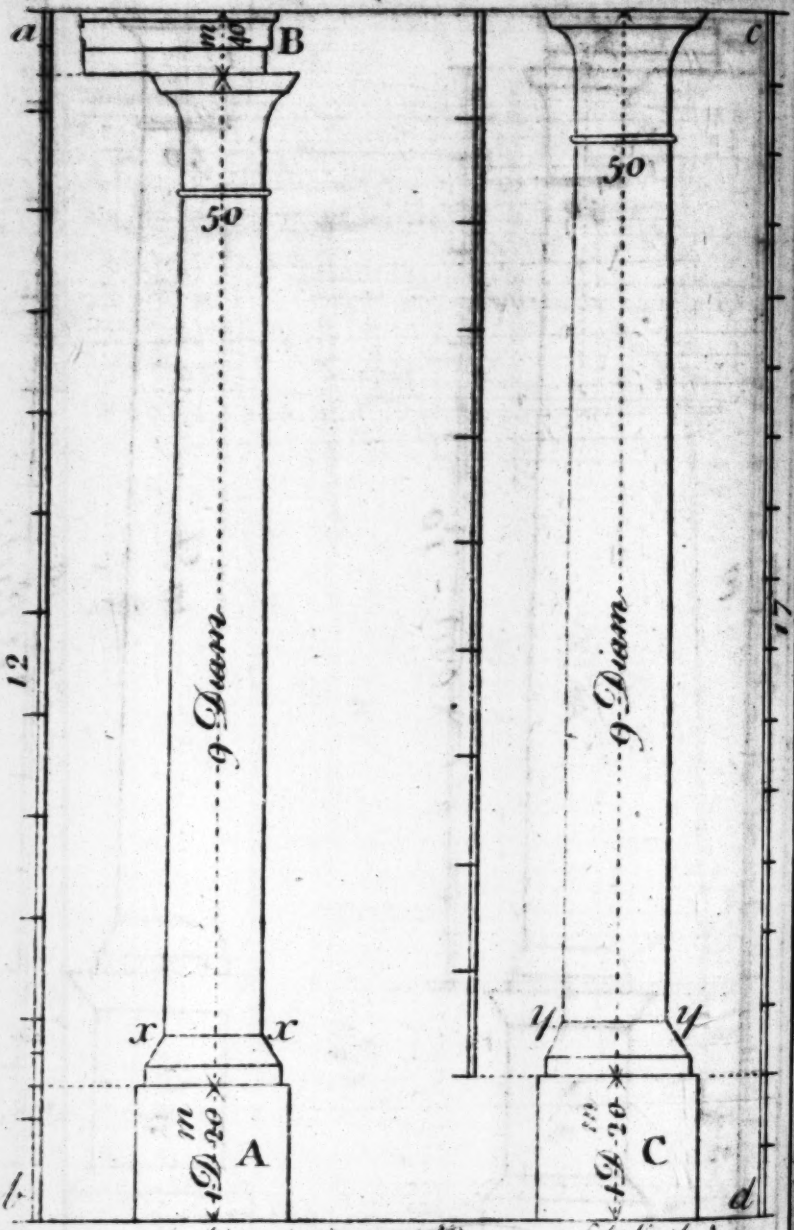
To Proportion the Corinthian Column with its Entablature or Architrave to any Height.



To Proportion the Corinthian Column and Pedestal with or without its Architrave to any Height.

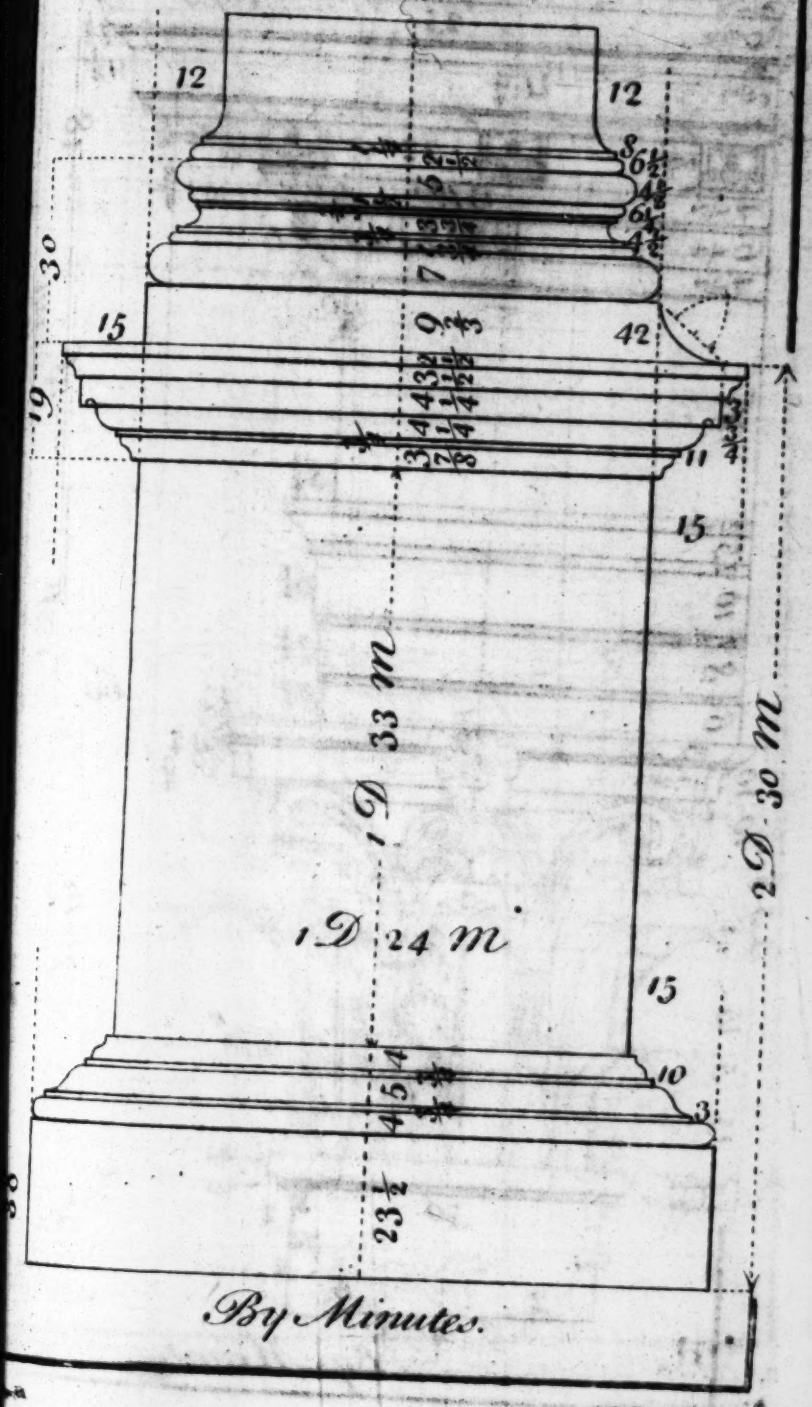


To Proportion ye Corinthian Column & Subplinth with & without its Architrave to any Height as a b: or c d: and to find ye Diam. of ye Column.



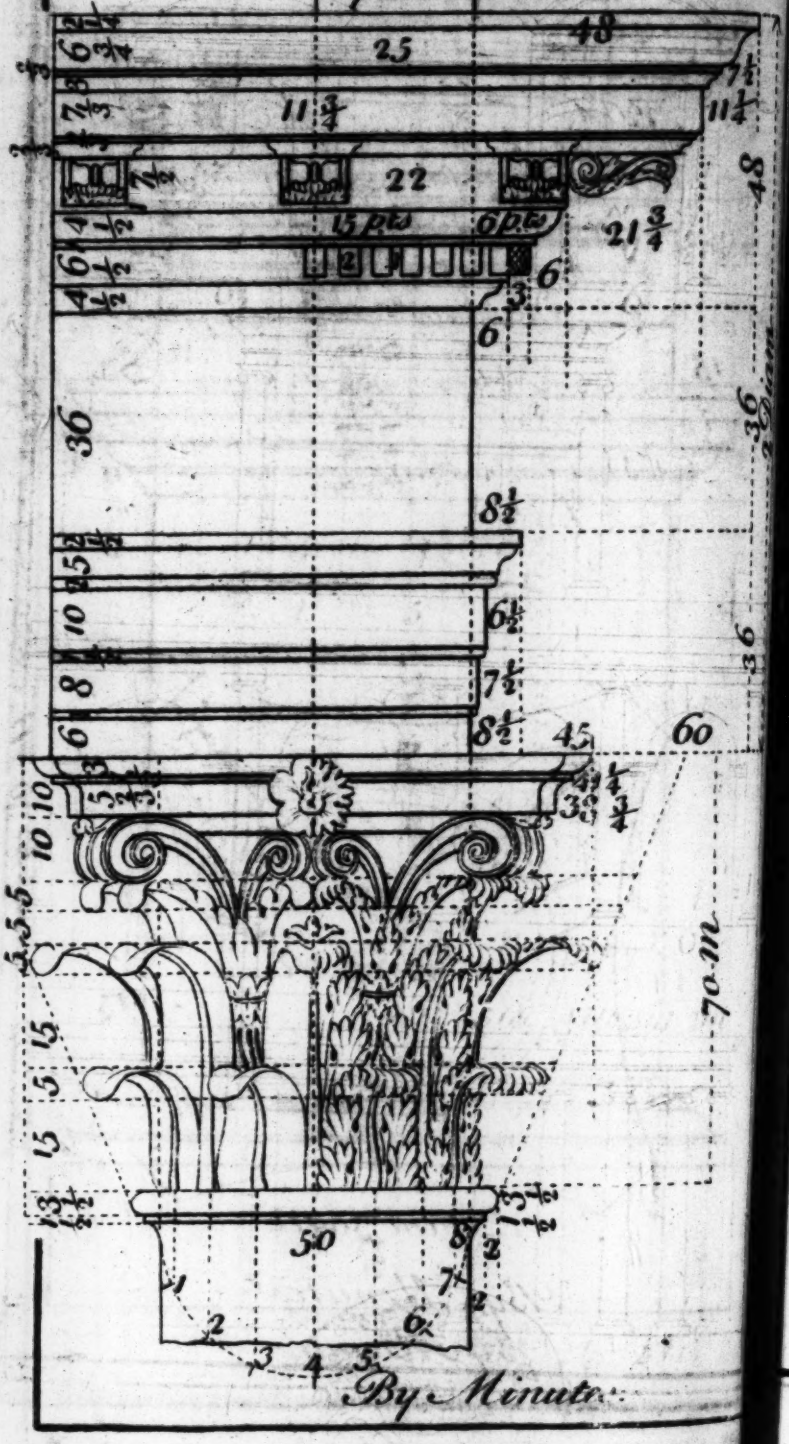
Divide { a b / c d / e f } in { 12 / 17 10 } Parts { 1 1/3 / 1 / 1 / 1 } Give to the { Subplinth A / Archumve B / Diam. x x / Subplinth C / Diam. y y }

The Corinthian Pedestal and Base
By A. Palladio.

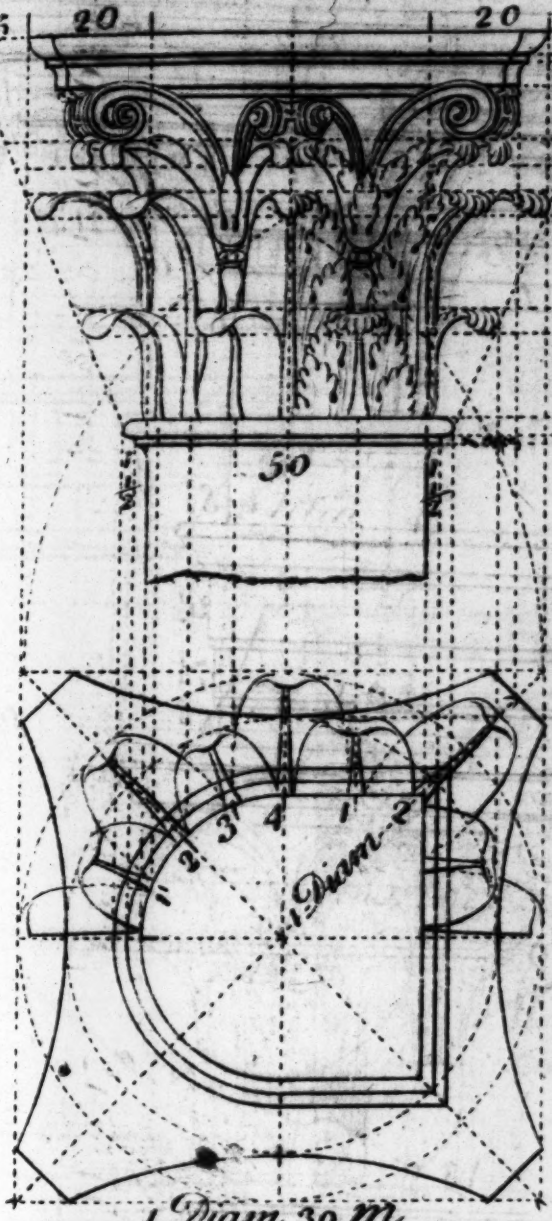


By Minutes.

The Corinthian Capital and Entablature By A. Palladio.



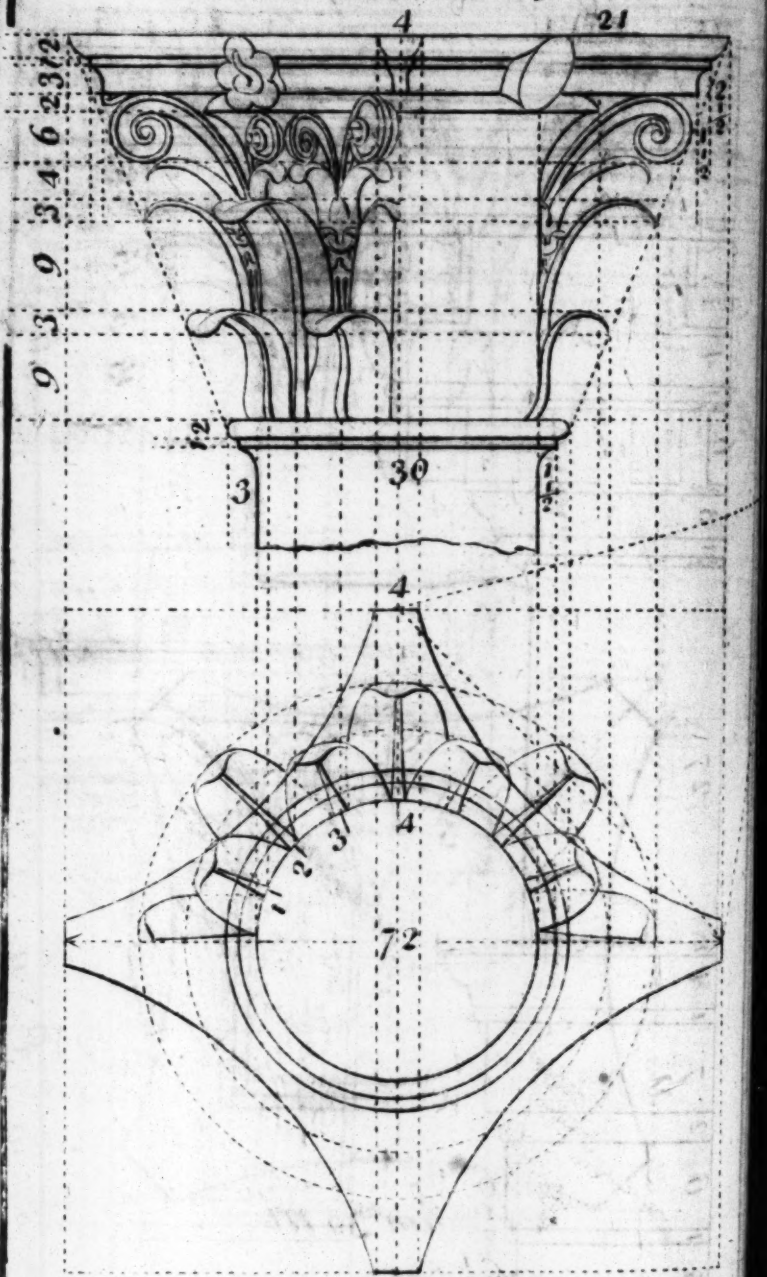
The Plan and Elevation of the Corinthian Capital, view'd in Front



1 Diam 30 M

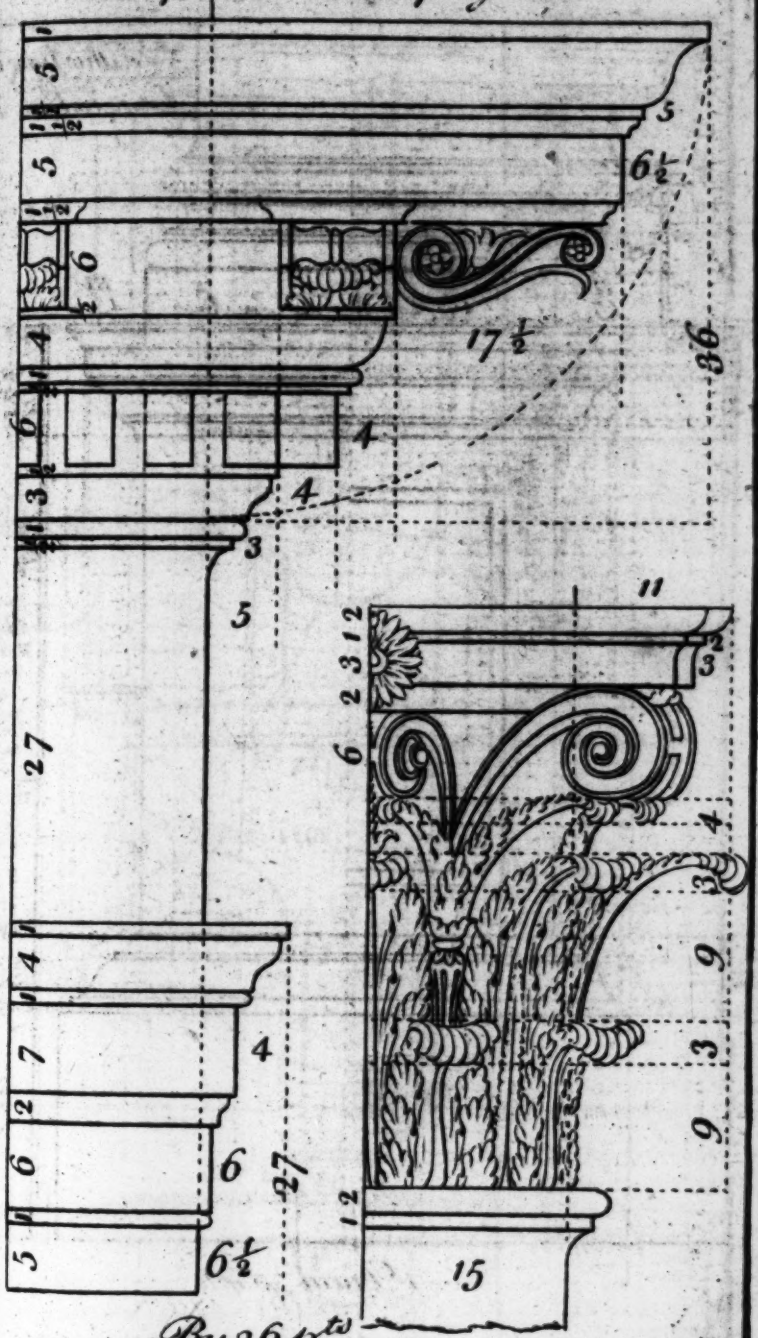
By Minutes

The Corinthian Capital vievid at an Angle By G. Barozzio of Vignola.



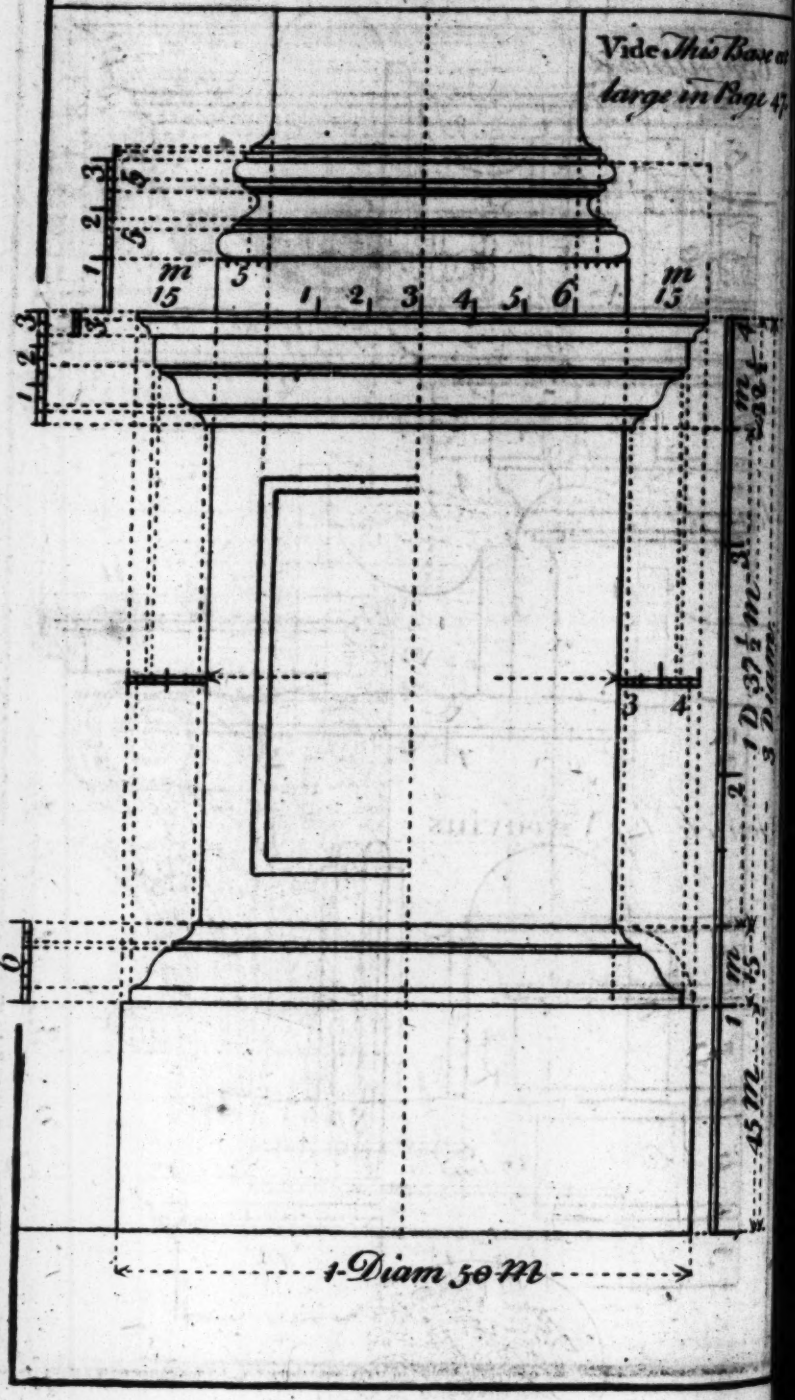
By 36.ths of the Diam.

The Corinthian Capital and Entablature
By G Barozzio of Vignola.

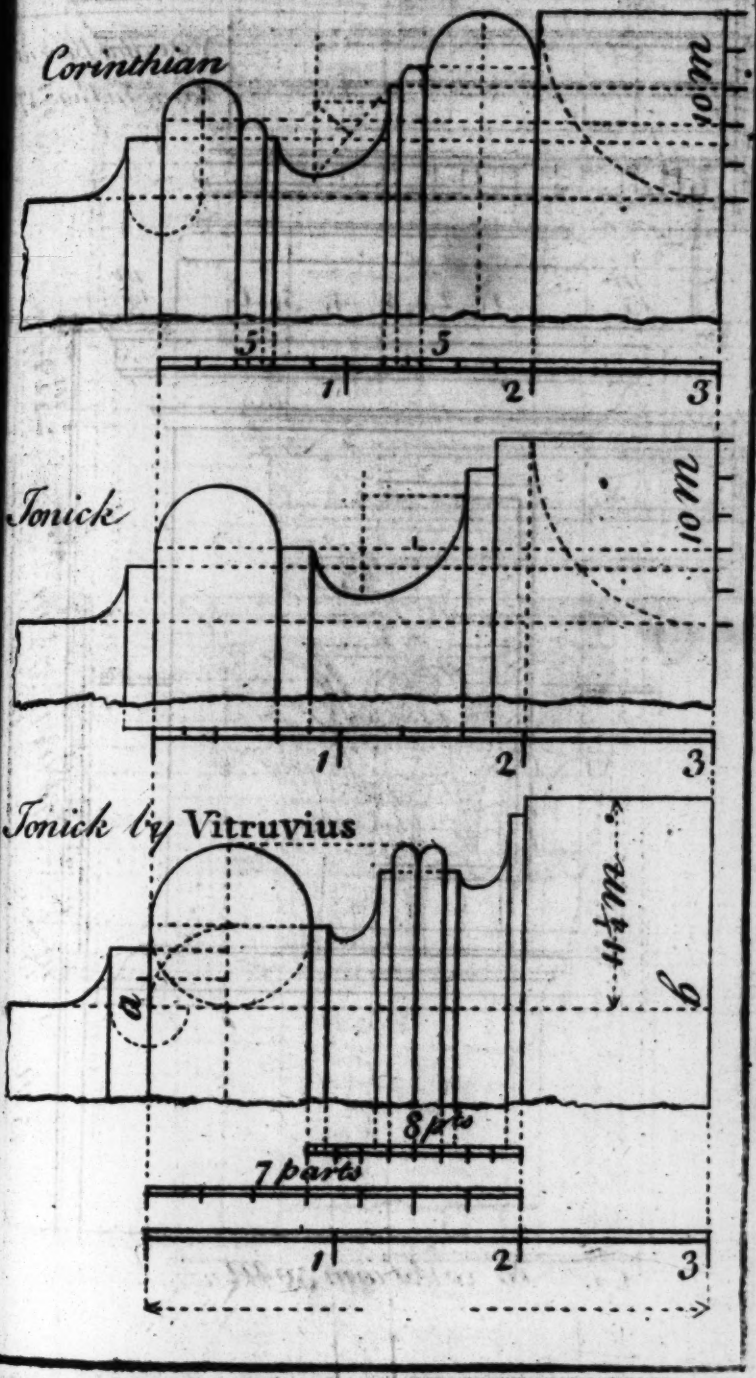


By 36 pts.

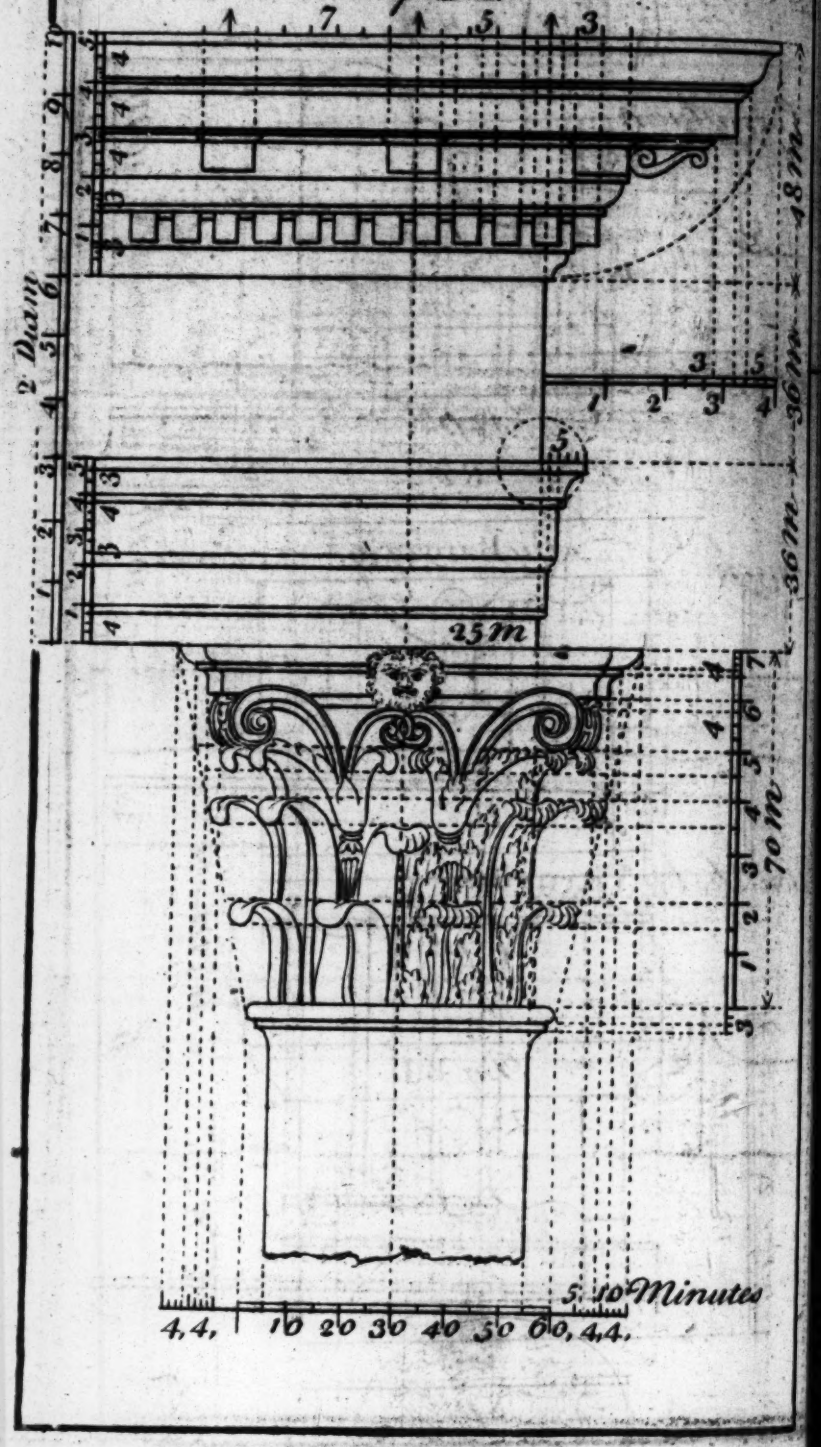
The Corinthian Base and Pedestal
By B L.



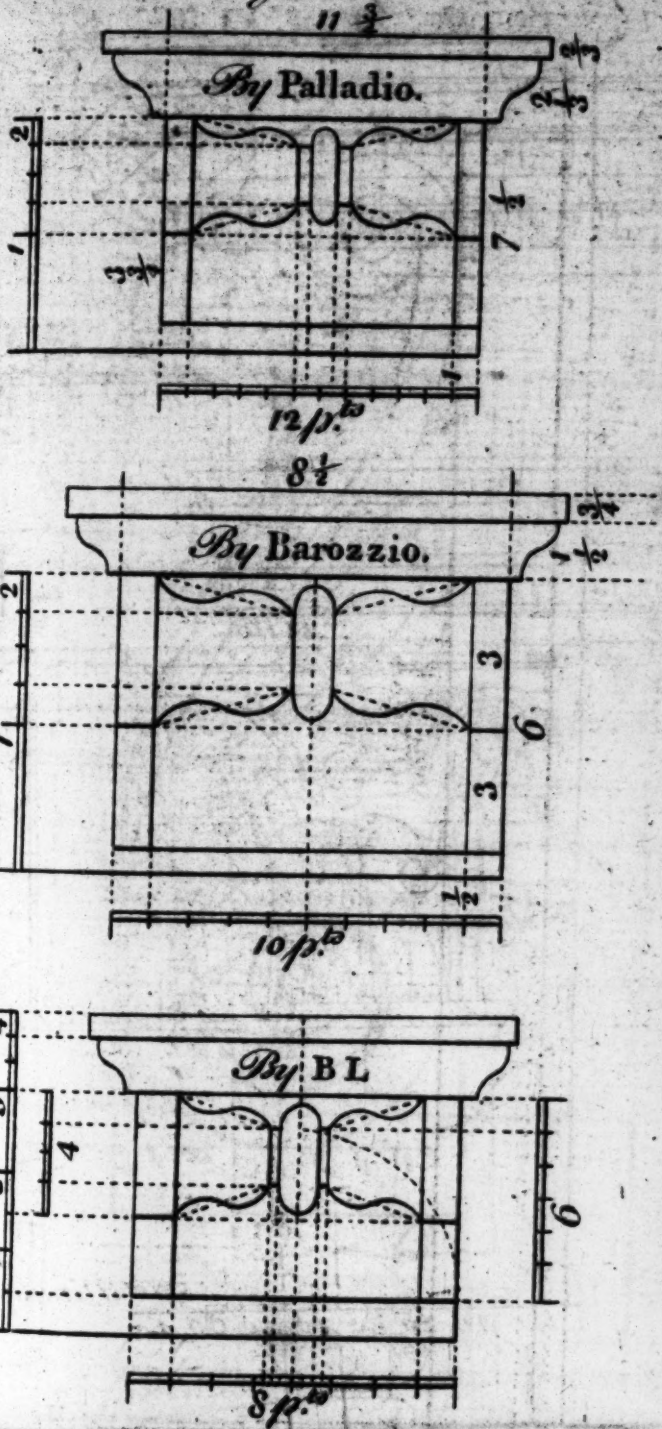
Ionick and Corinthian Base at Large.



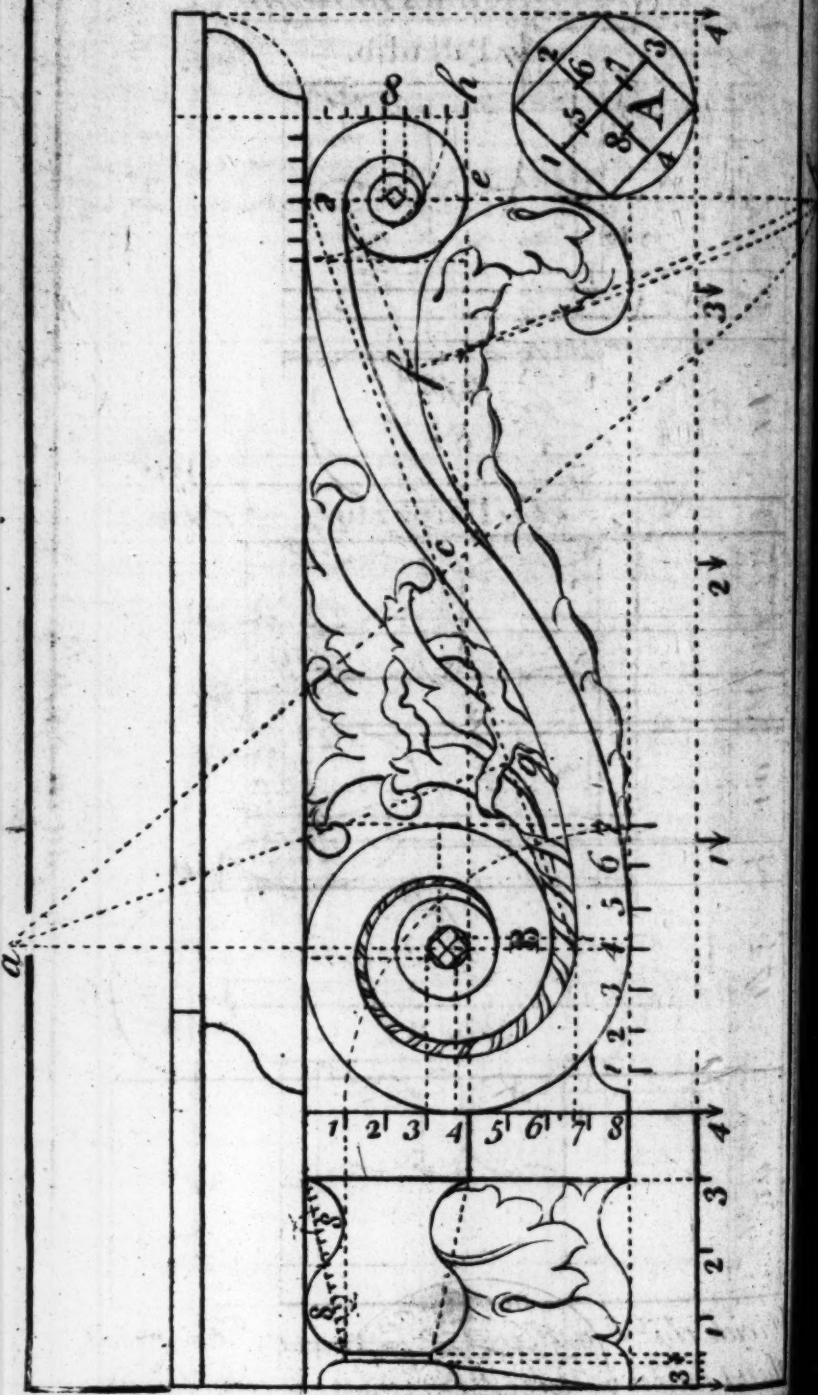
Corinthian *Capital and Entablature*
By B.L.



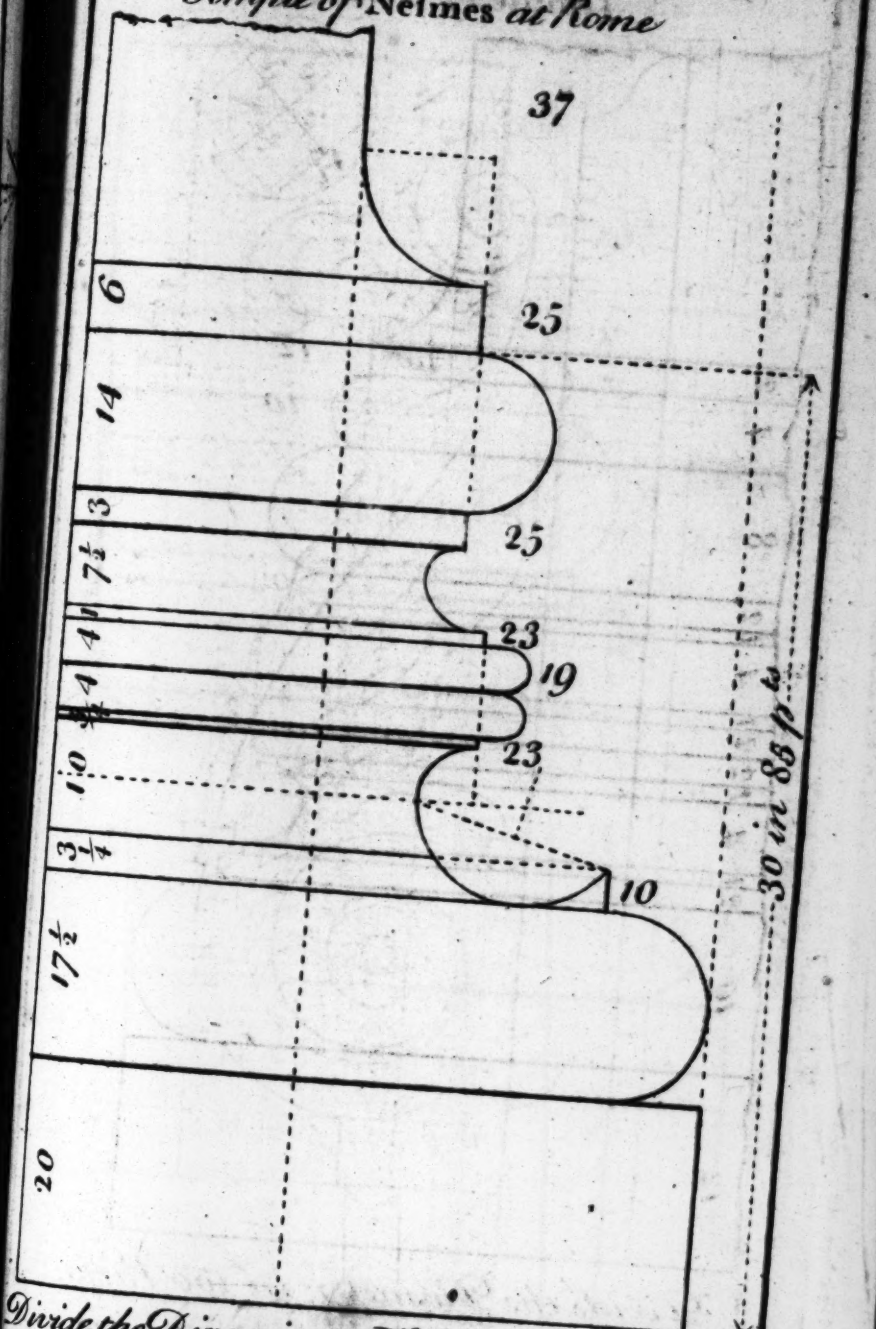
Corinthian *Modiglions in Front*



Profile of Corinthian Modilion

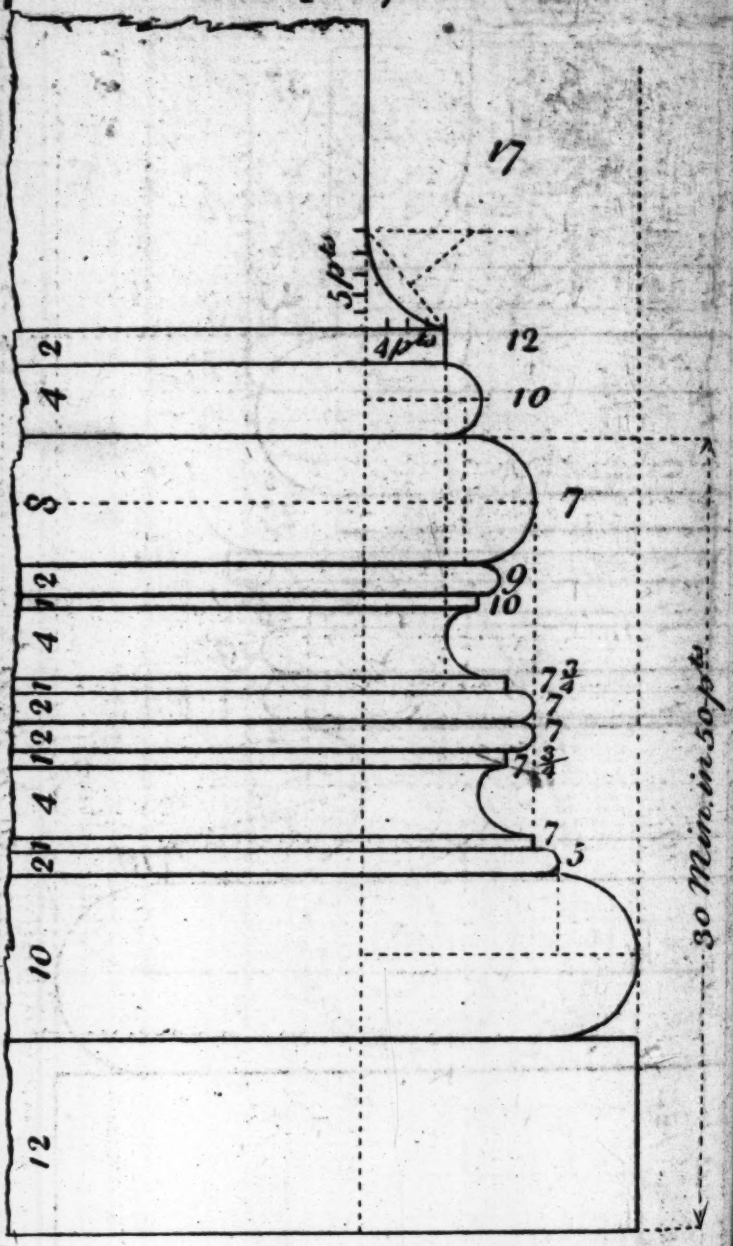


From the Corinthian Base in the Temple of Nesmes at Rome



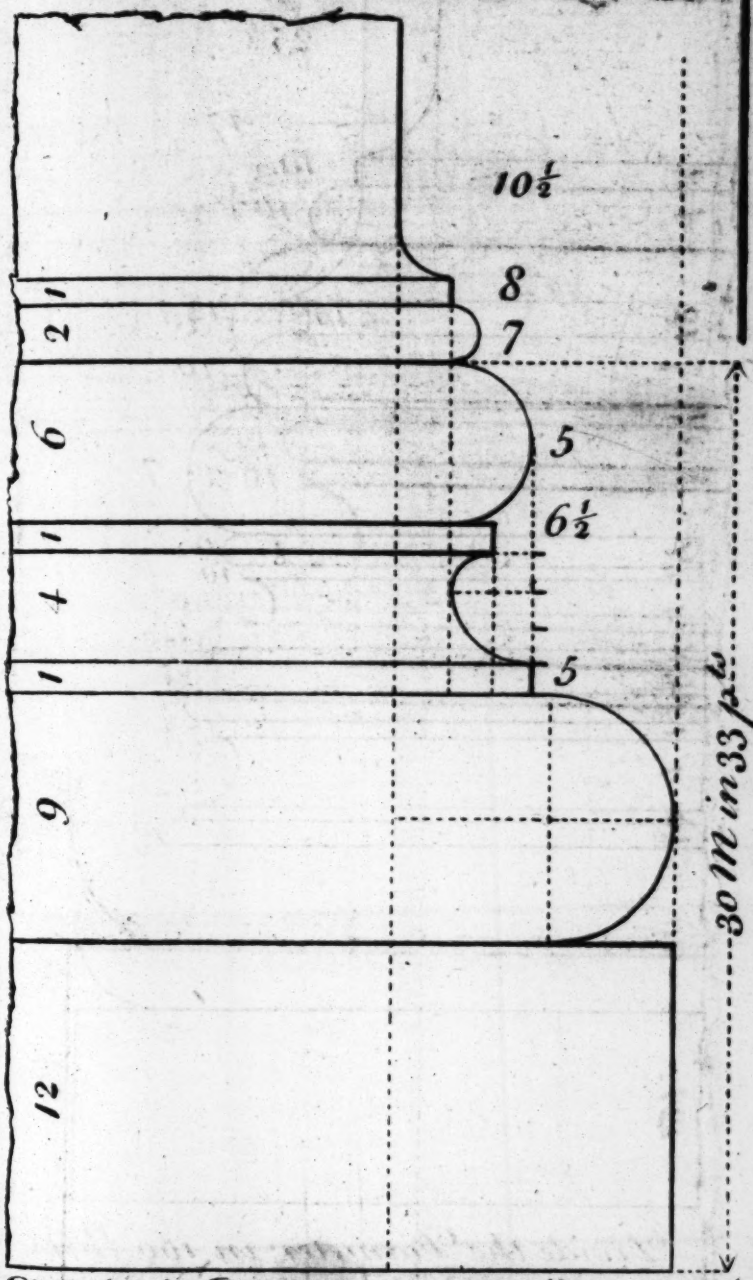
Divide the Diam: in 170 Parts, viz. First in 17s then 1 in 10 & then proceed as with Minutes.

Another Corinthian *Base from the* Temple *of* Neſmes



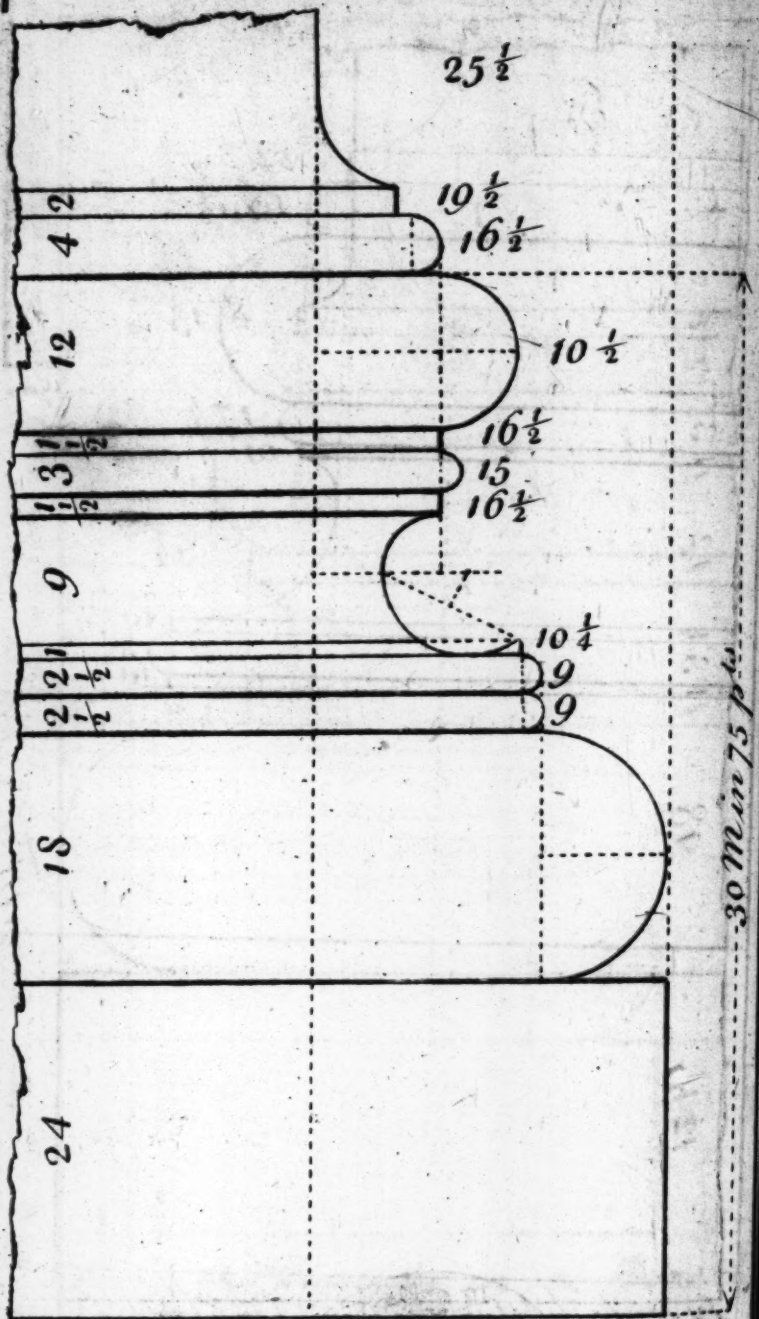
Divide the Diameter in 100 Parts, viz
First in 10 and then 1 in 10. &c.

From the Corinthian *Base within the Temple of* Peace *at Rome*



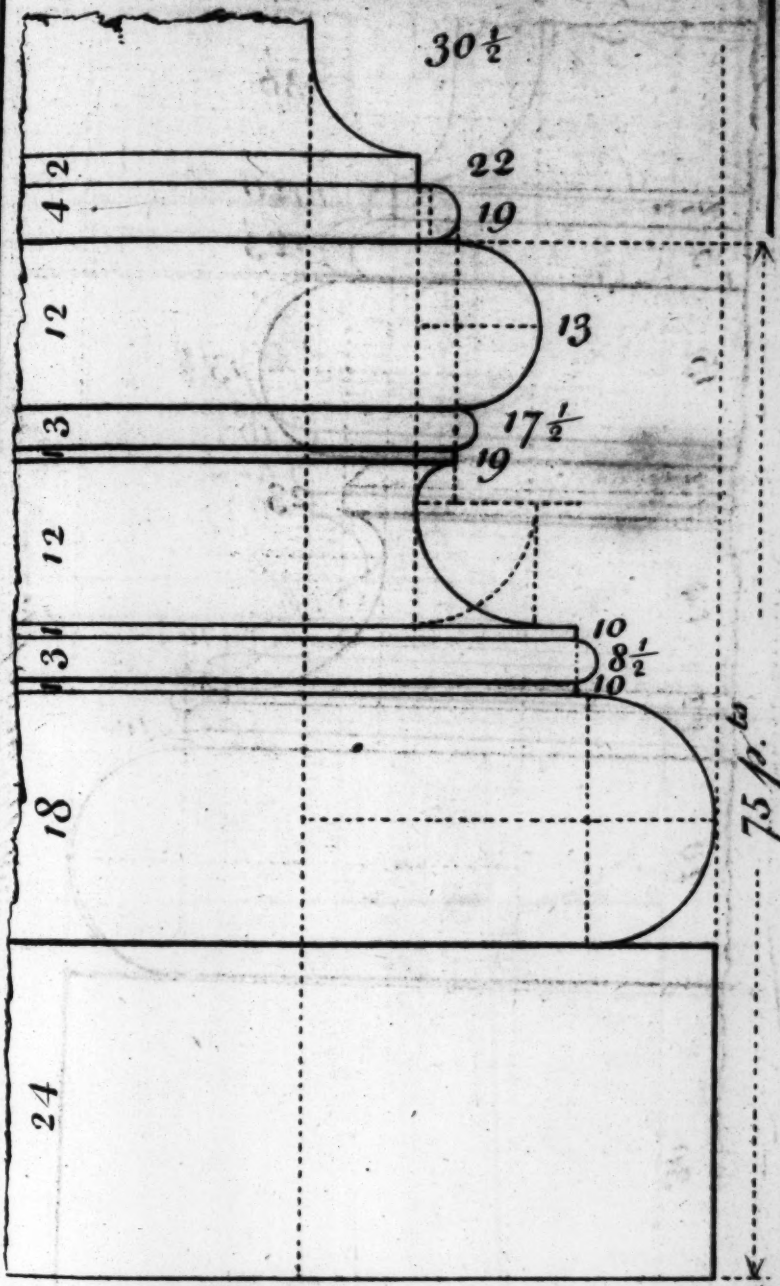
Divide the Diameter in 66 Parts, viz. First in 11 and then 1 in 6.

From the Corinthian *Base in the Temple of* Neſmes *called* La Maiſon Quaree, *at Rome*



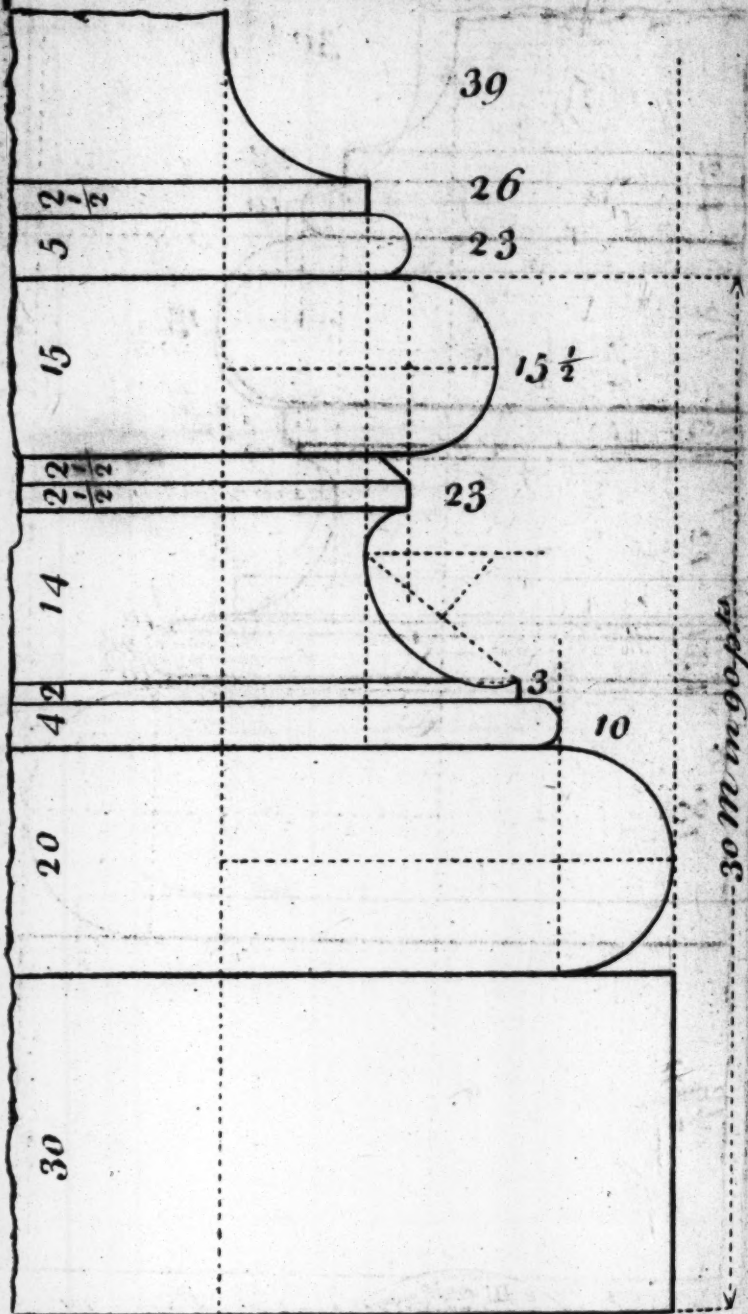
Divide the Diameter in 150 Parts, viz. First in 15, and then 1 in 10, &c.

From the Corinthian Base in the Piazza of the Temple of Nerva Trajanus at Rome.



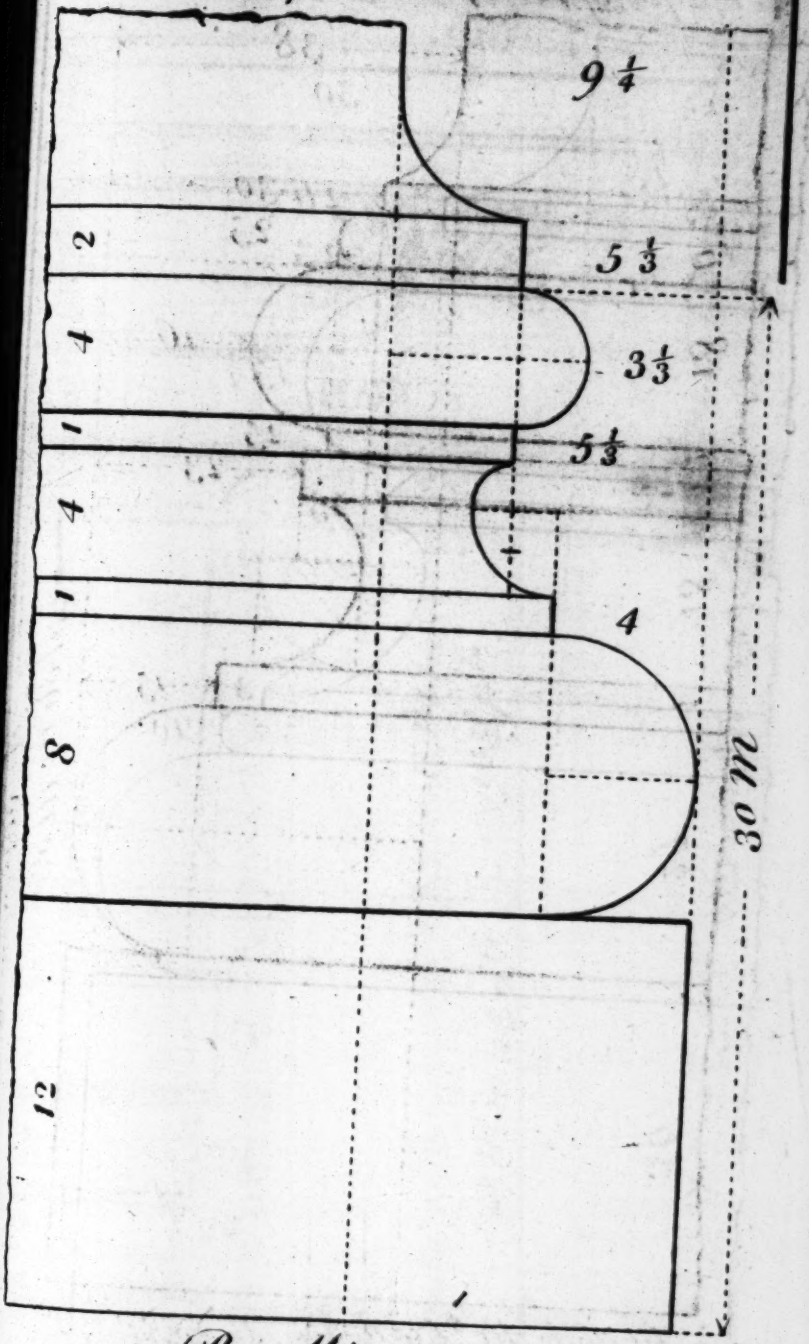
Divide the Diameter in 150 Parts, viz. First in 15. and then 1 in 10. &c.

From the Corinthian *Base in the Temple of* Nerva Trajanus *at Rome*

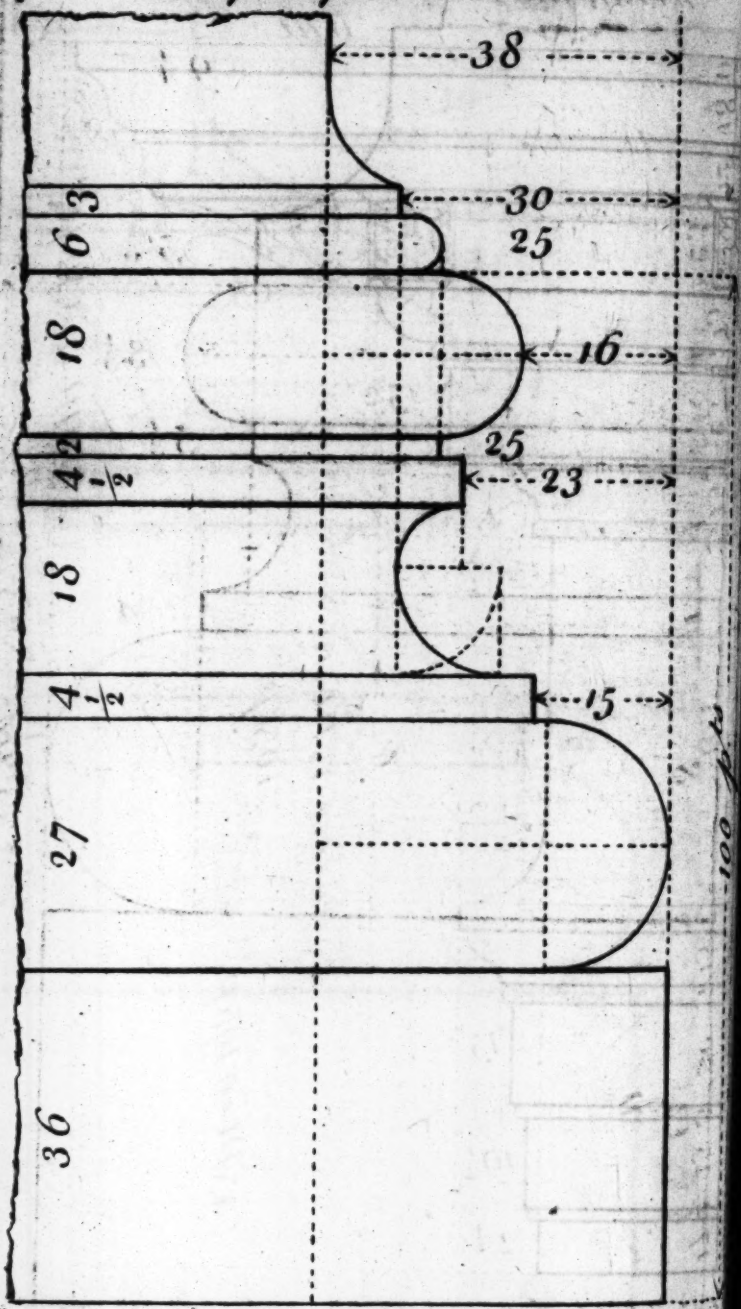


Divide the Diameter in 180 Parts, viz. First in 18 and then 1 in 10.

From the Corinthian *Base in the Temple of* Vesta *at Rome.*

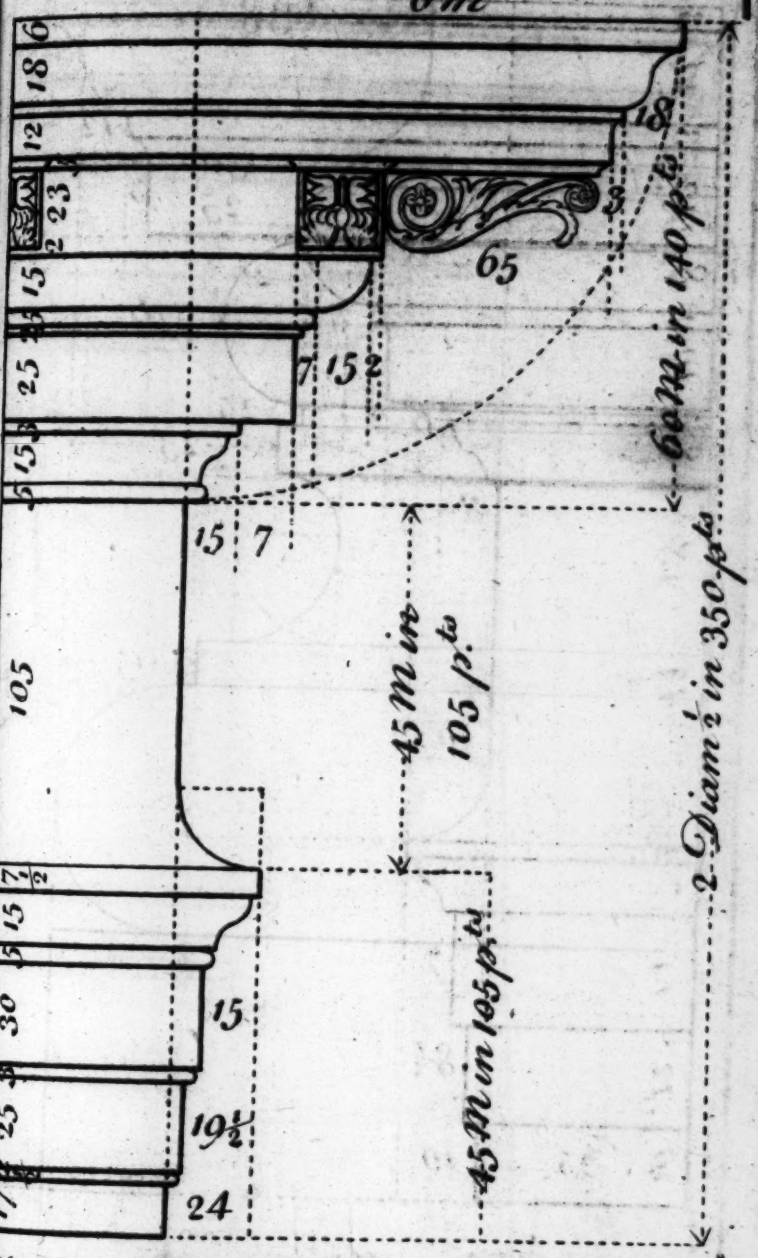


From the Corinthian Base in the Temple of Mars at Rome



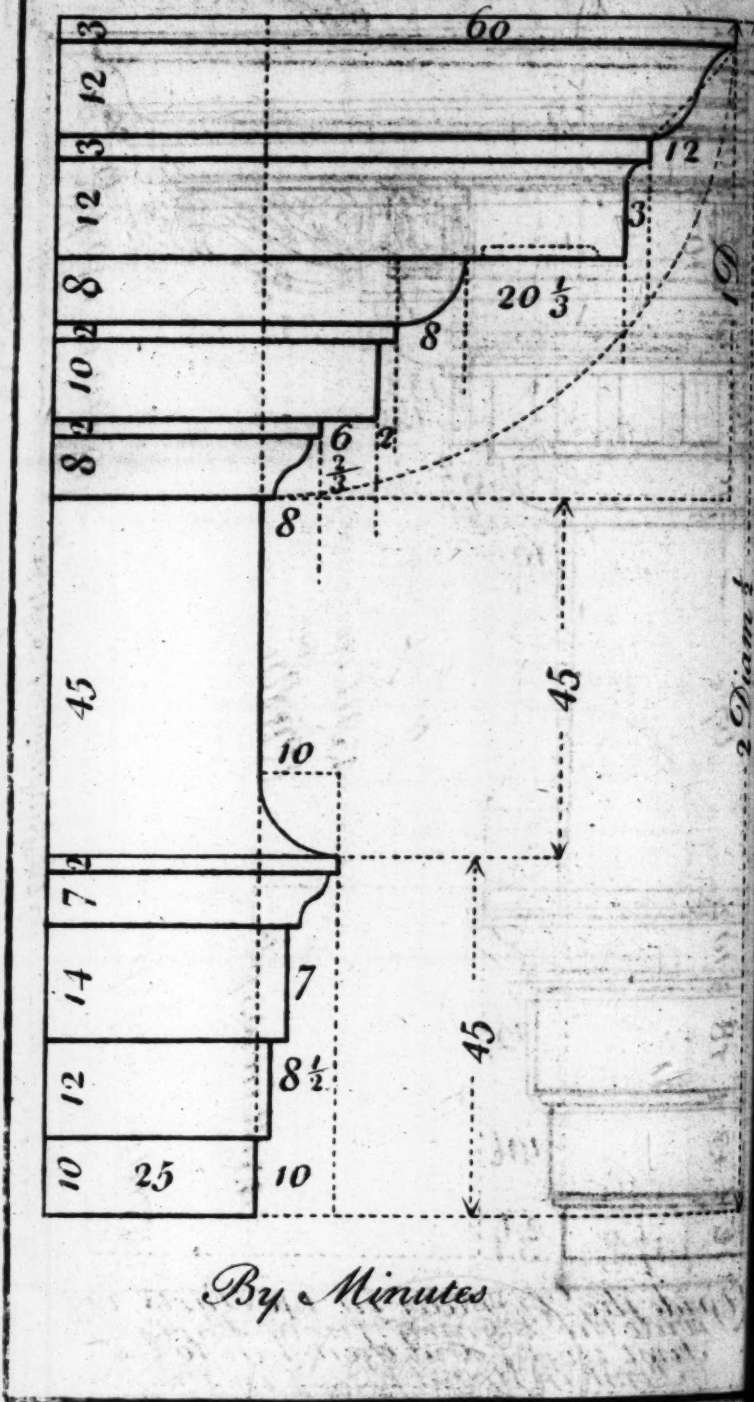
Divide the Diameter in 220 Parts, viz
First in 11, and then 1 in 20, &c.

From the Corinthian Entablature within the Rotunda at Rome



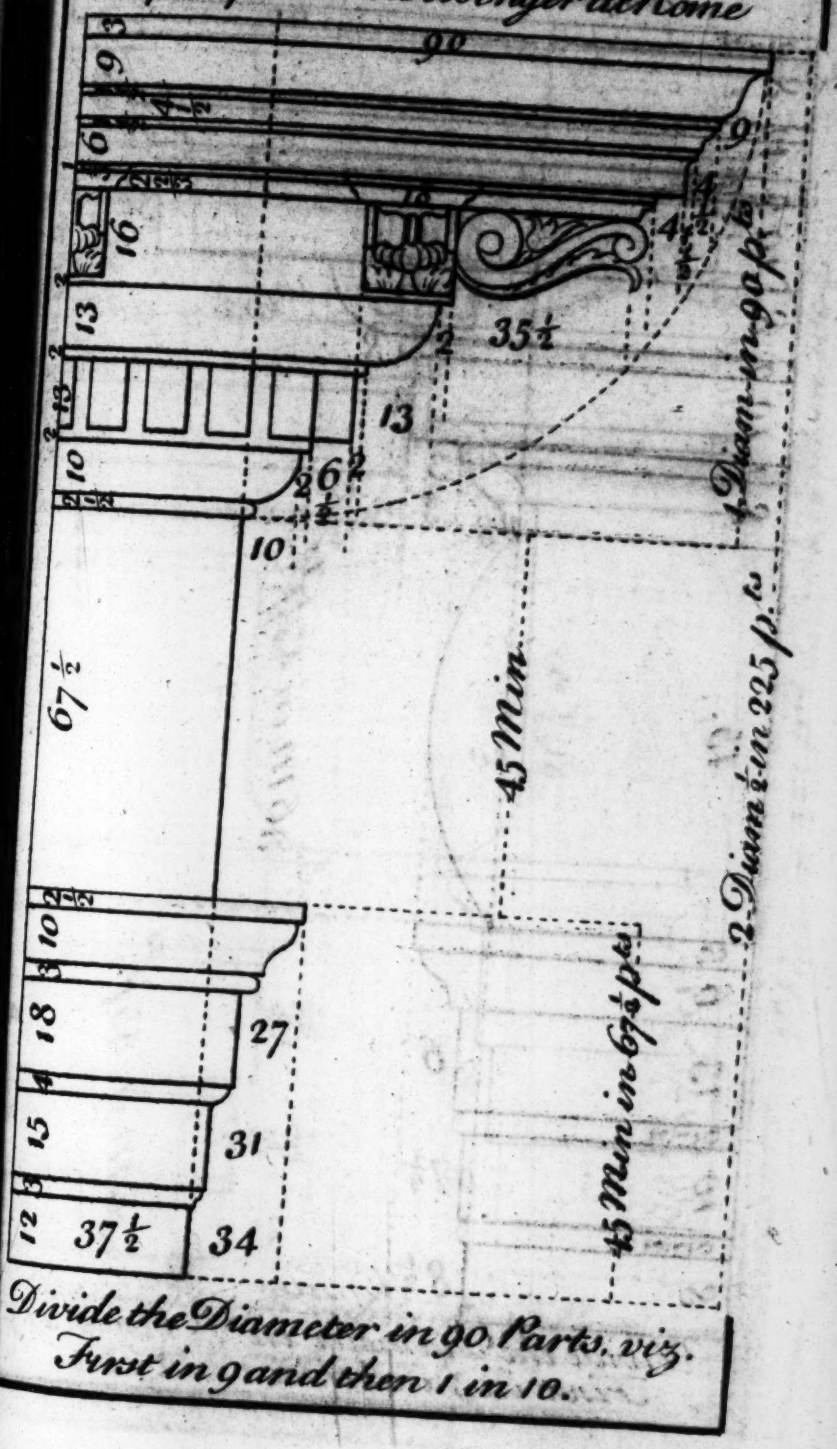
Divide the Diameter in 140 Parts, viz, First in 14 and then 1 in 10 &c.

From the Corinthian *Entablature of the* Altars *in the* Rotunda *at Rome.*

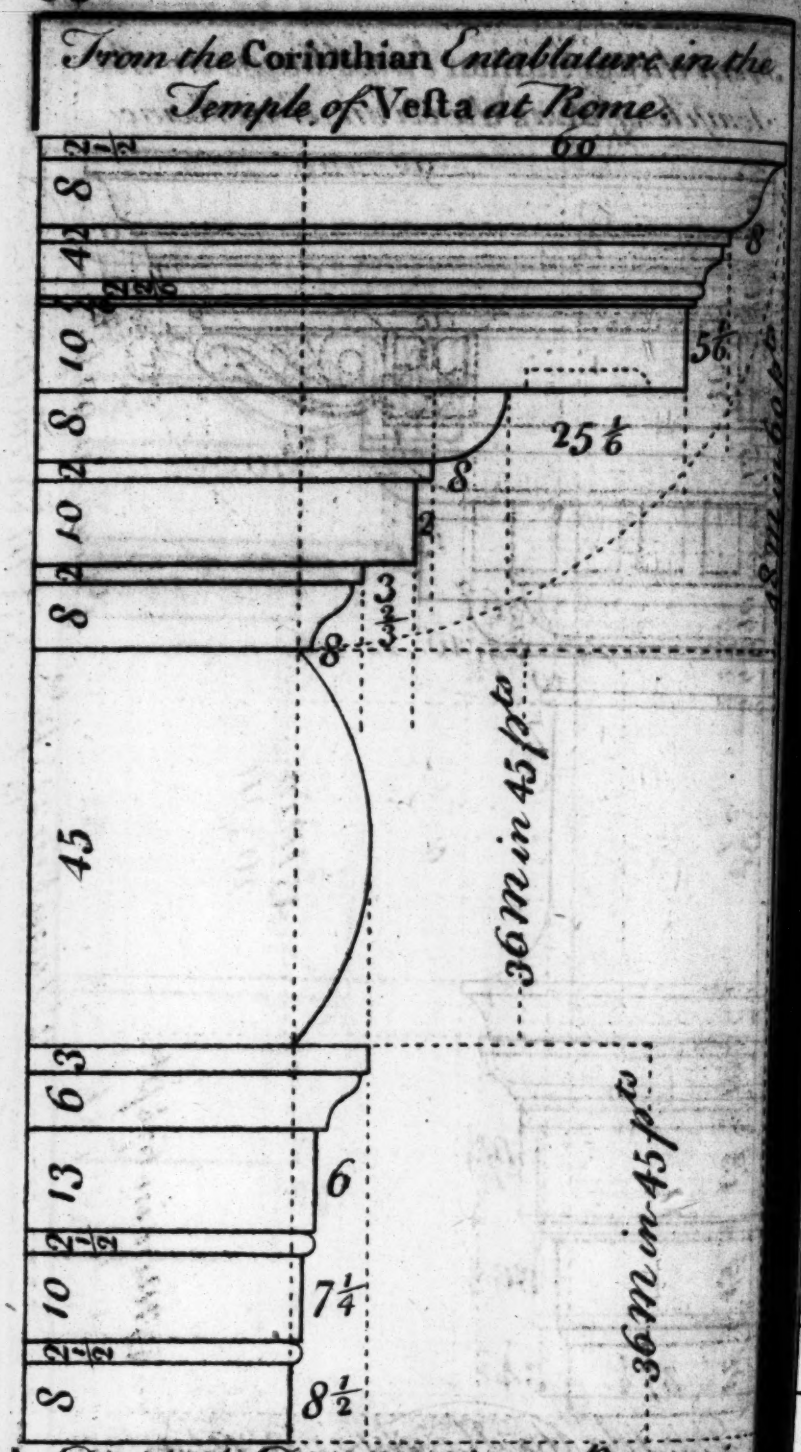


By Minutes

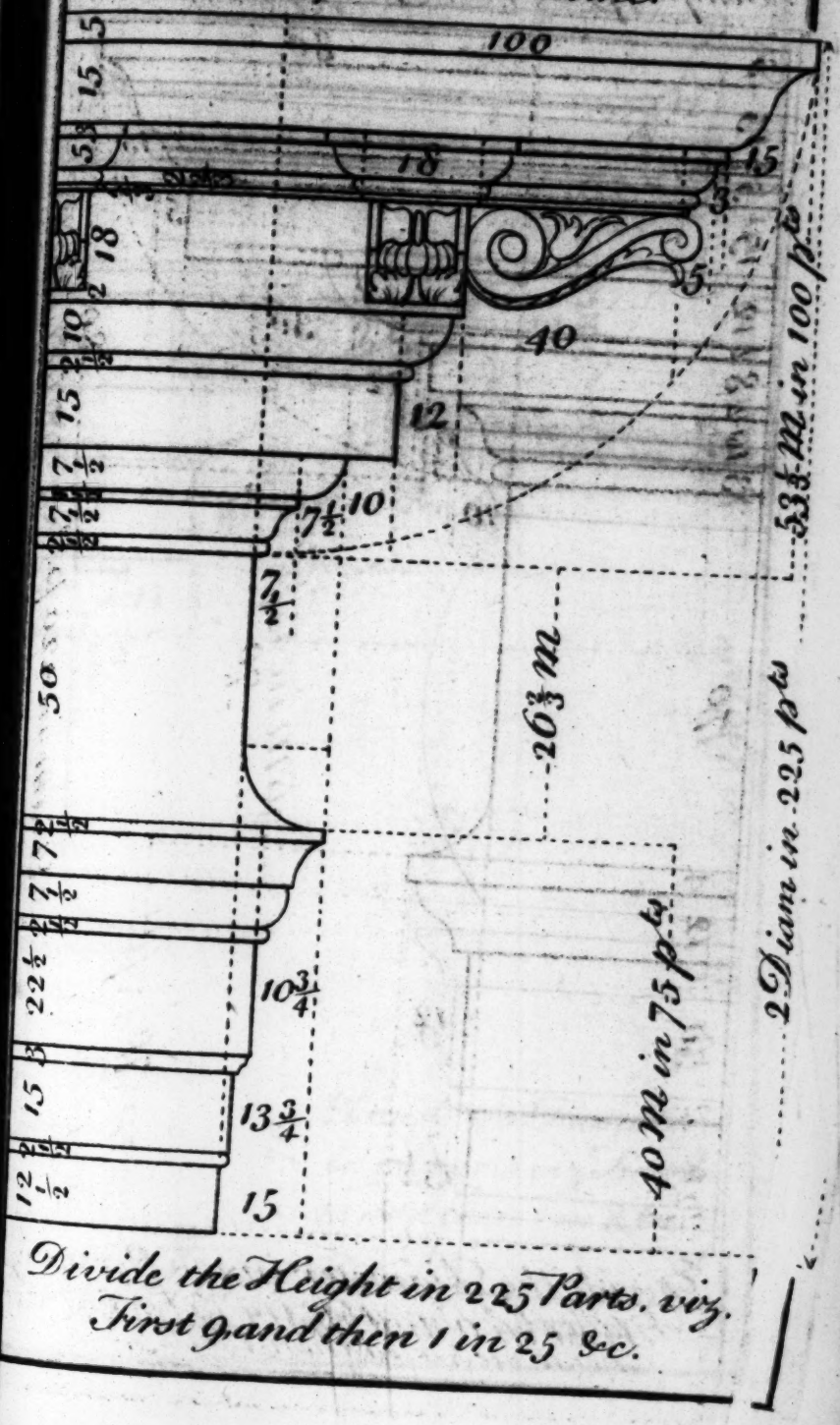
From the Corinthian Entablature in the Temple of Mars the Avenger at Rome



Divide the Diameter in 90 Parts, viz. First in 9 and then 1 in 10.

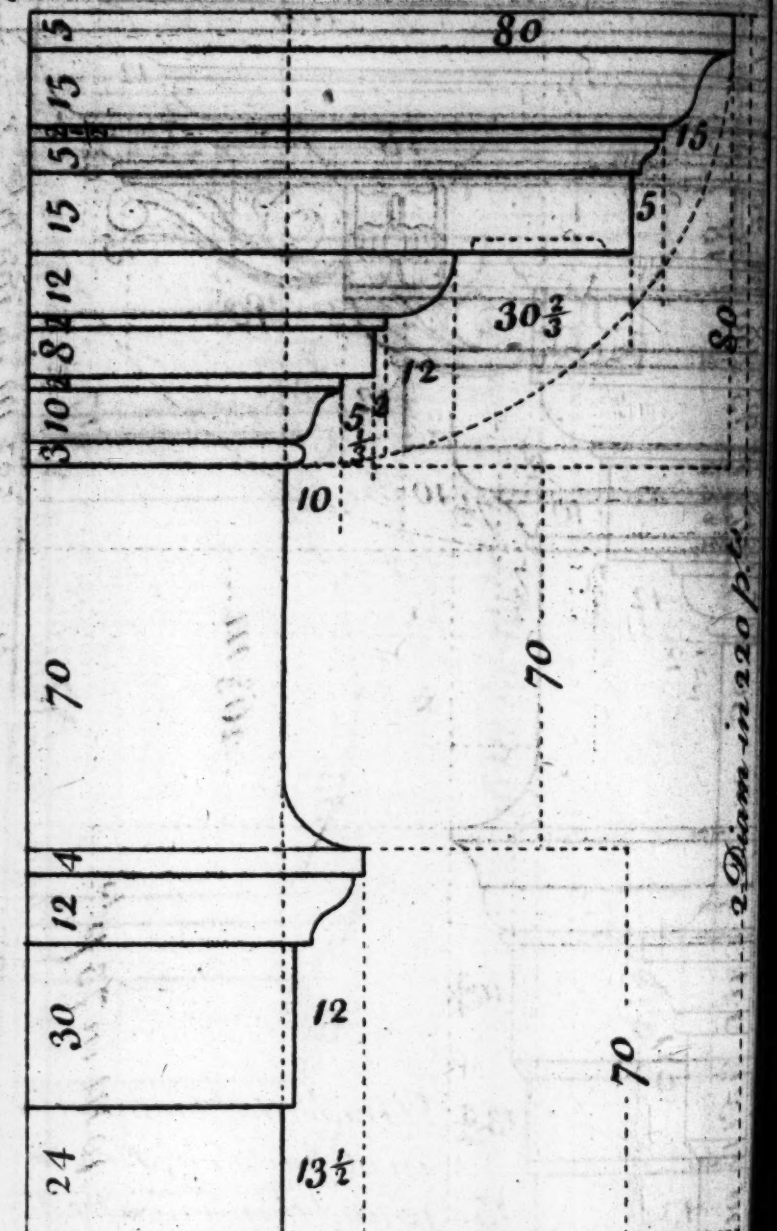

From the Corinthian Entablature in the Temple of Vesta at Rome.
60
8
42
10
8
10
8
45
6
13
10
8
8
5 1/6
25 1/6
3
7 1/4
8 1/2
36 M in 45 Pts
36 M in 45 Pts
Divide the Diameter in 75 Parts, viz.
First in 3 and then 1 in 25. &c.

From the Corinthian Entablature in the Temple of Peace at Rome.



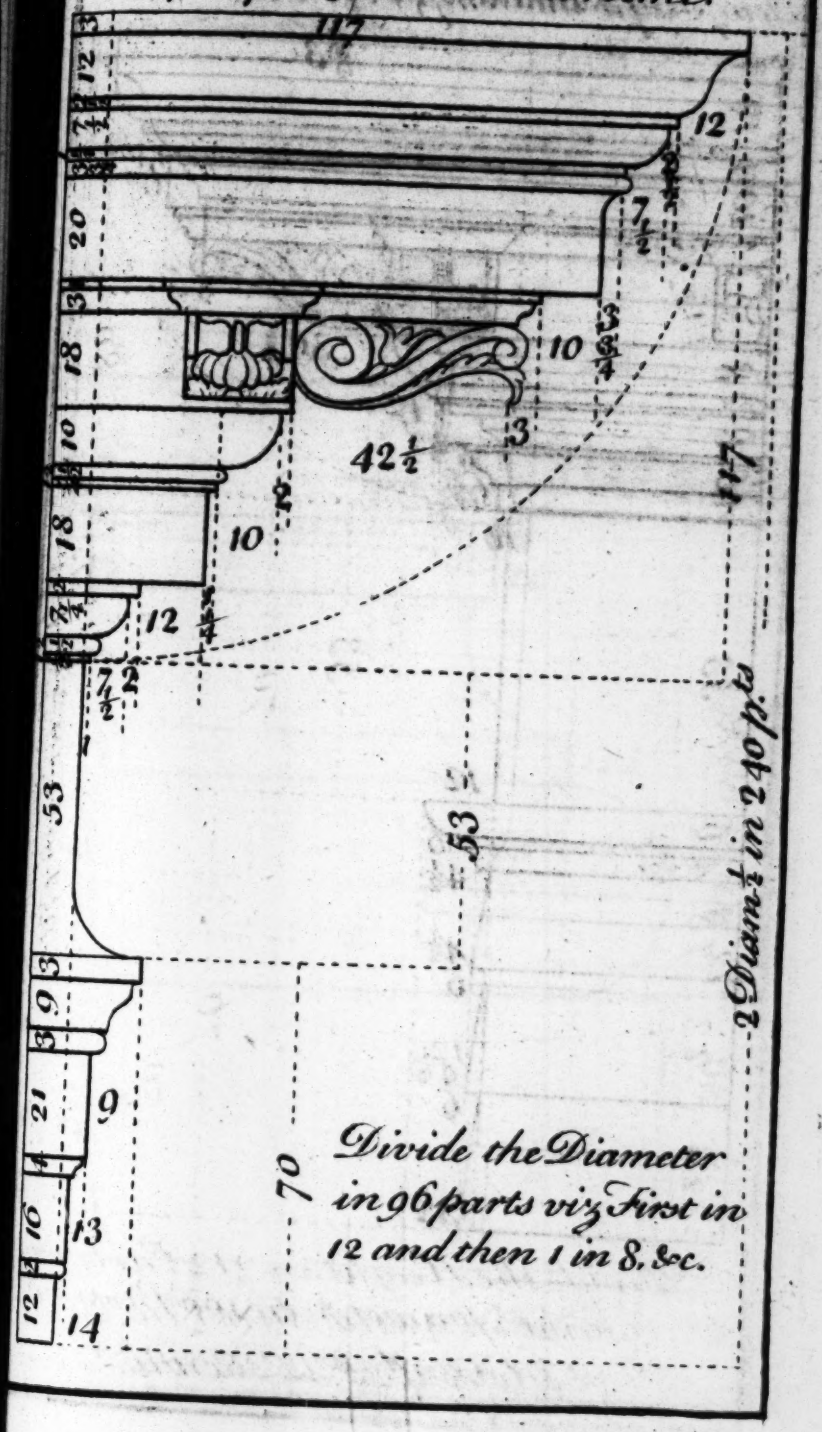
Divide the Height in 225 Parts. viz. First 9 and then 1 in 25 &c.

From the Corinthian *Entablature in the Temple of* Antoninus & Faustina *at Rome.*

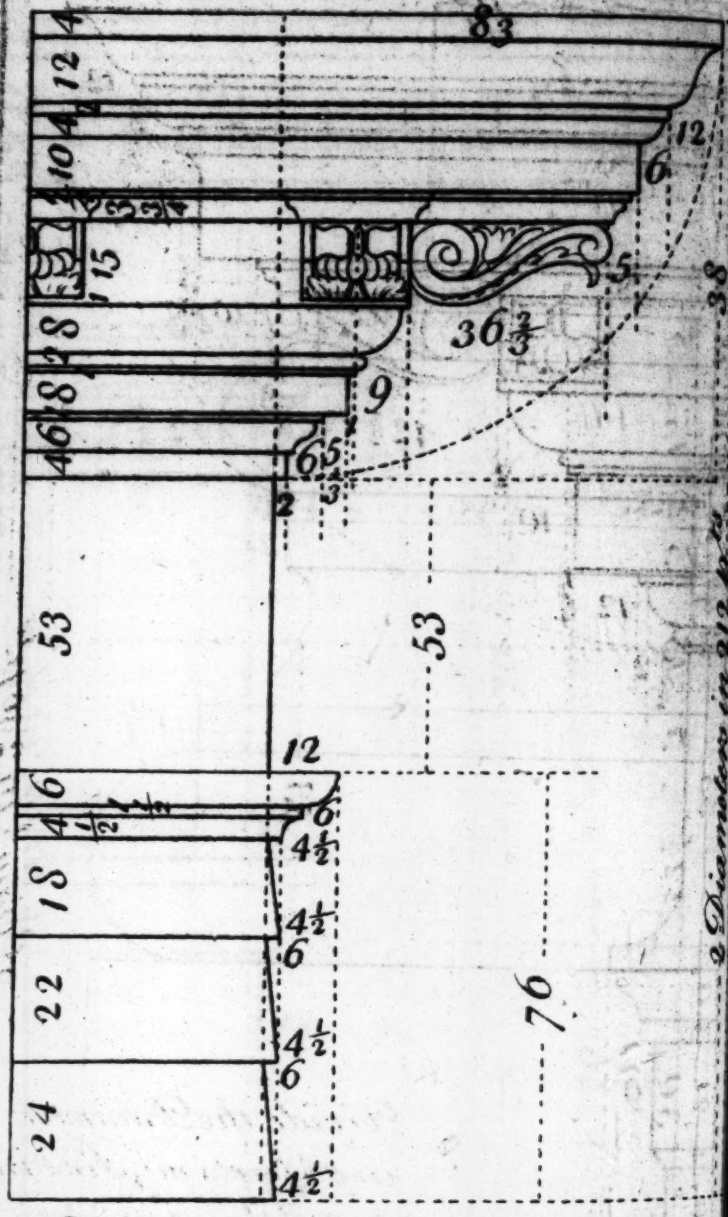


Divide the Diameter in 100 Parts, viz. First in 11 and then 1 in 10 &c.

From the Corinthian Entablature in the Temple of Jupiter Stator at Rome.

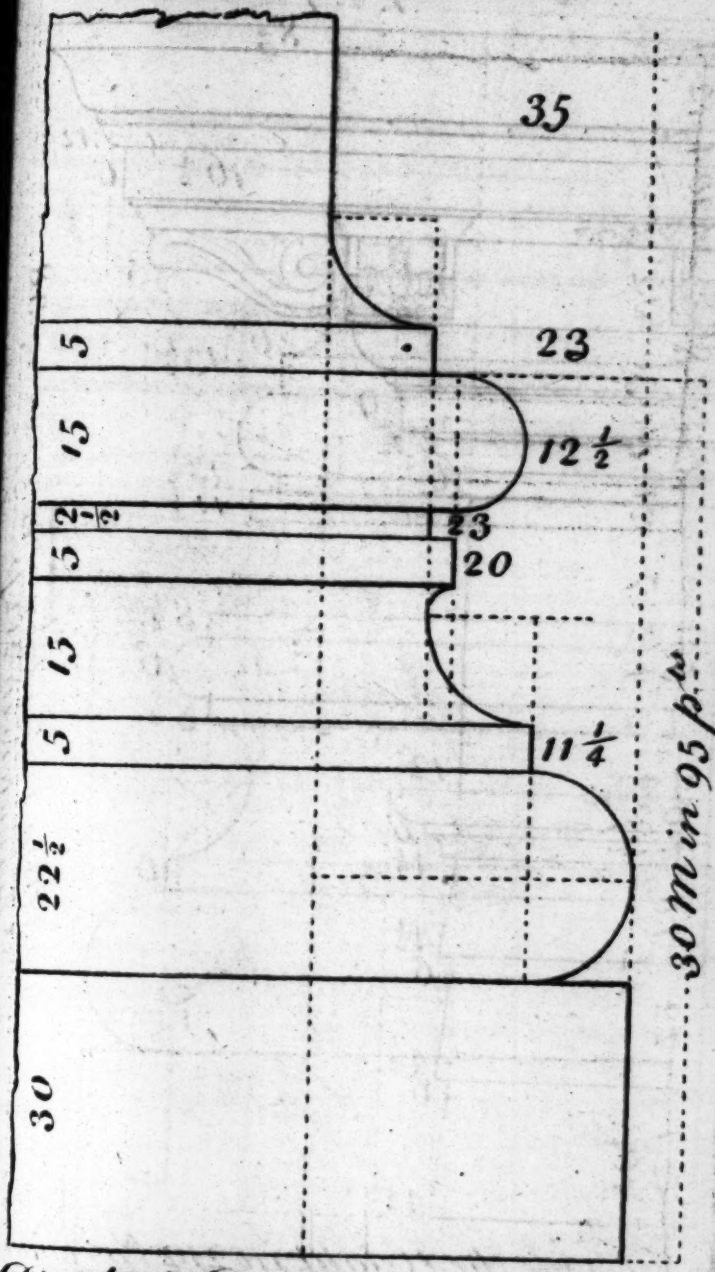


From the Corinthian *Entablature in the Temple of* Pola.



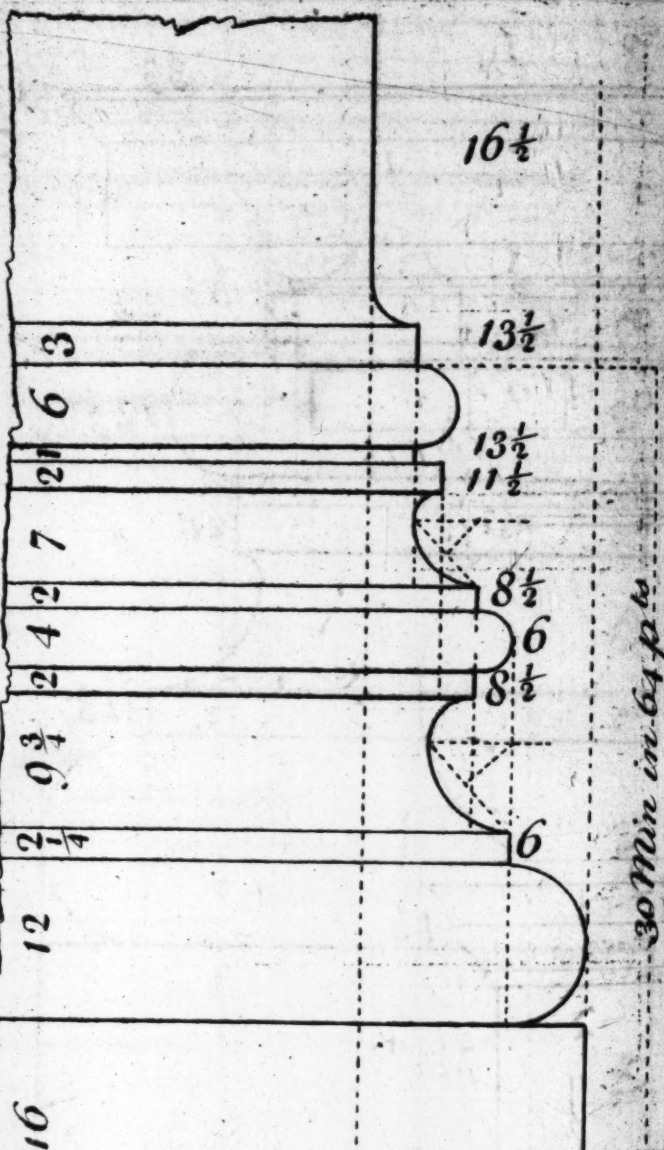
Divide the Height in 212 Parts, viz.
First in 4, and then 1 in 53.
as hereafter is shewn.

From y^e Corinthian Base in y^e Temple of Antoninus & Faustina



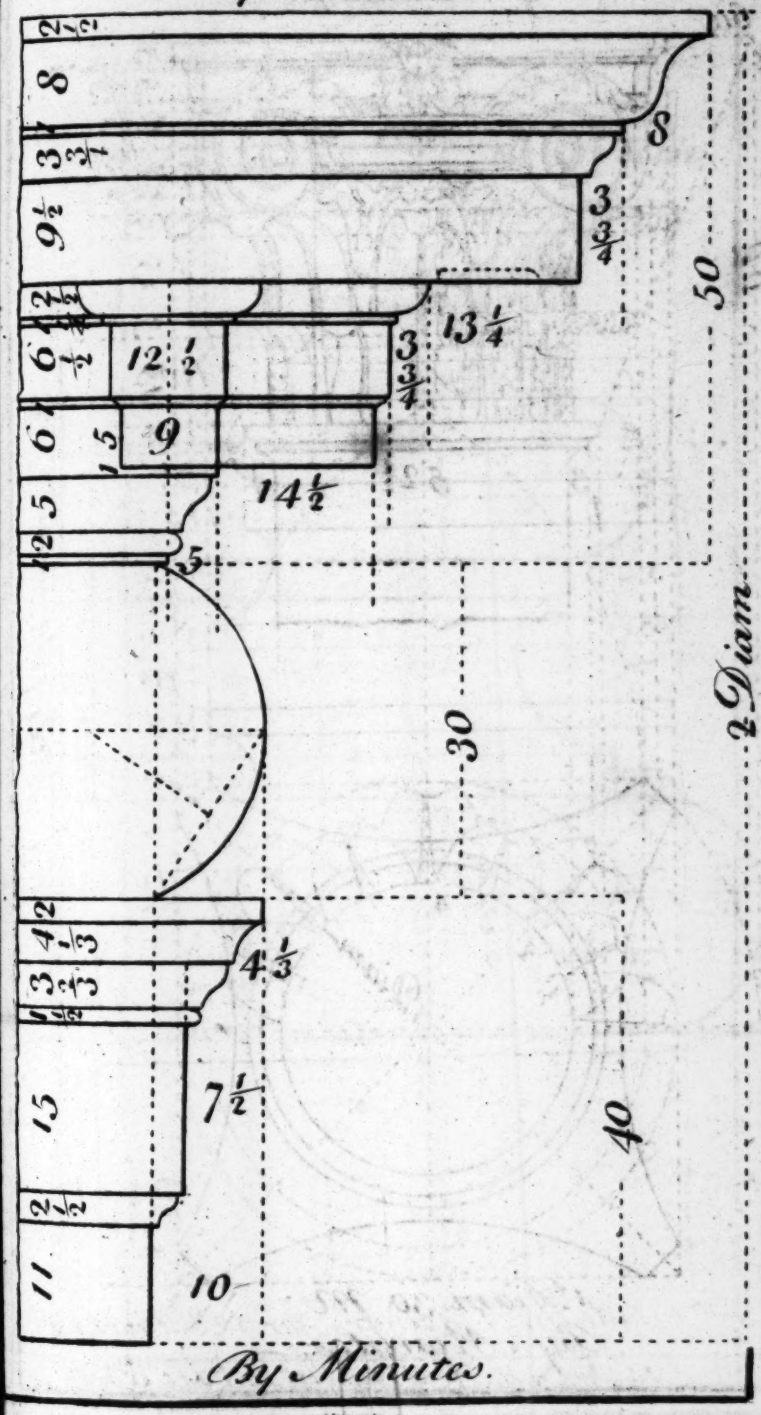
Divide the Diameter in 190 Parts viz.
First in 19 and then 1 in 10. &c.

From the Corinthian *Base in the*
Baptisterium *of* Constantine

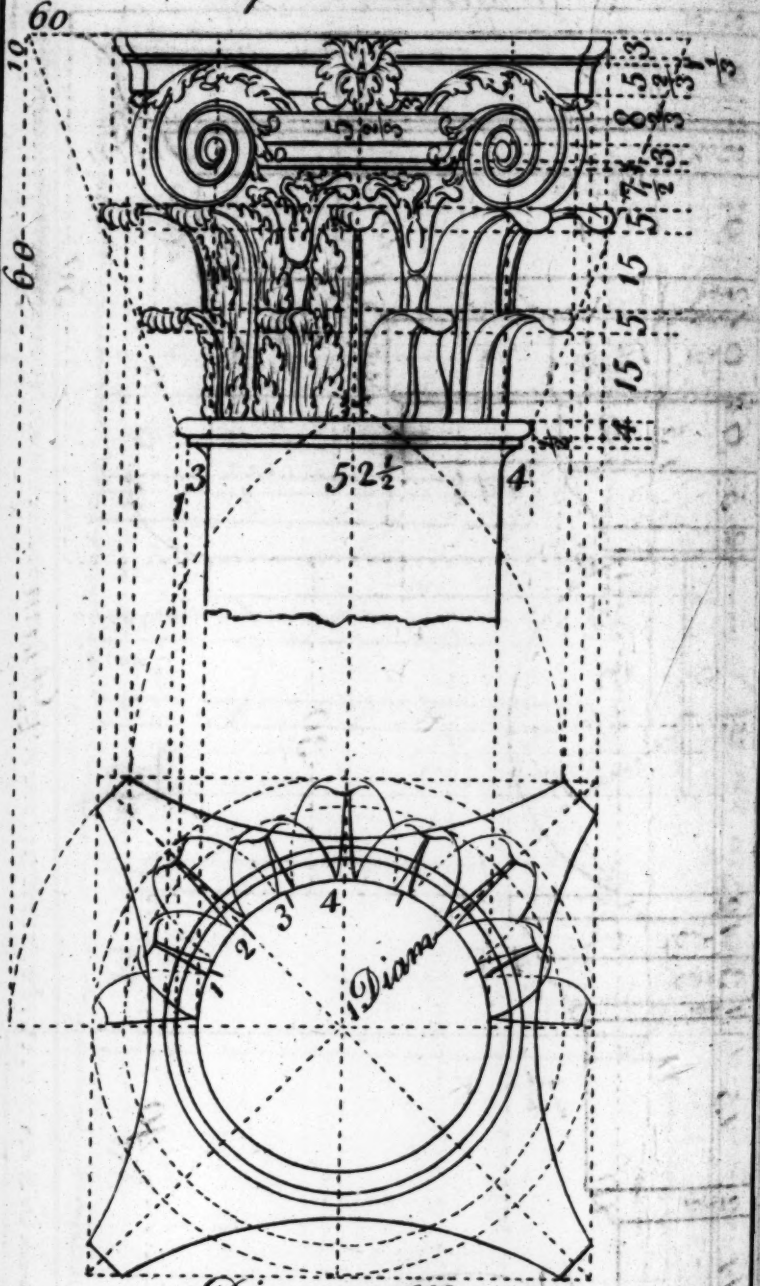


Divide the Diameter in 128 Parts viz
First in 16 and then 1 in 8 &c.

The Compoſite Entablature By A Palladio.

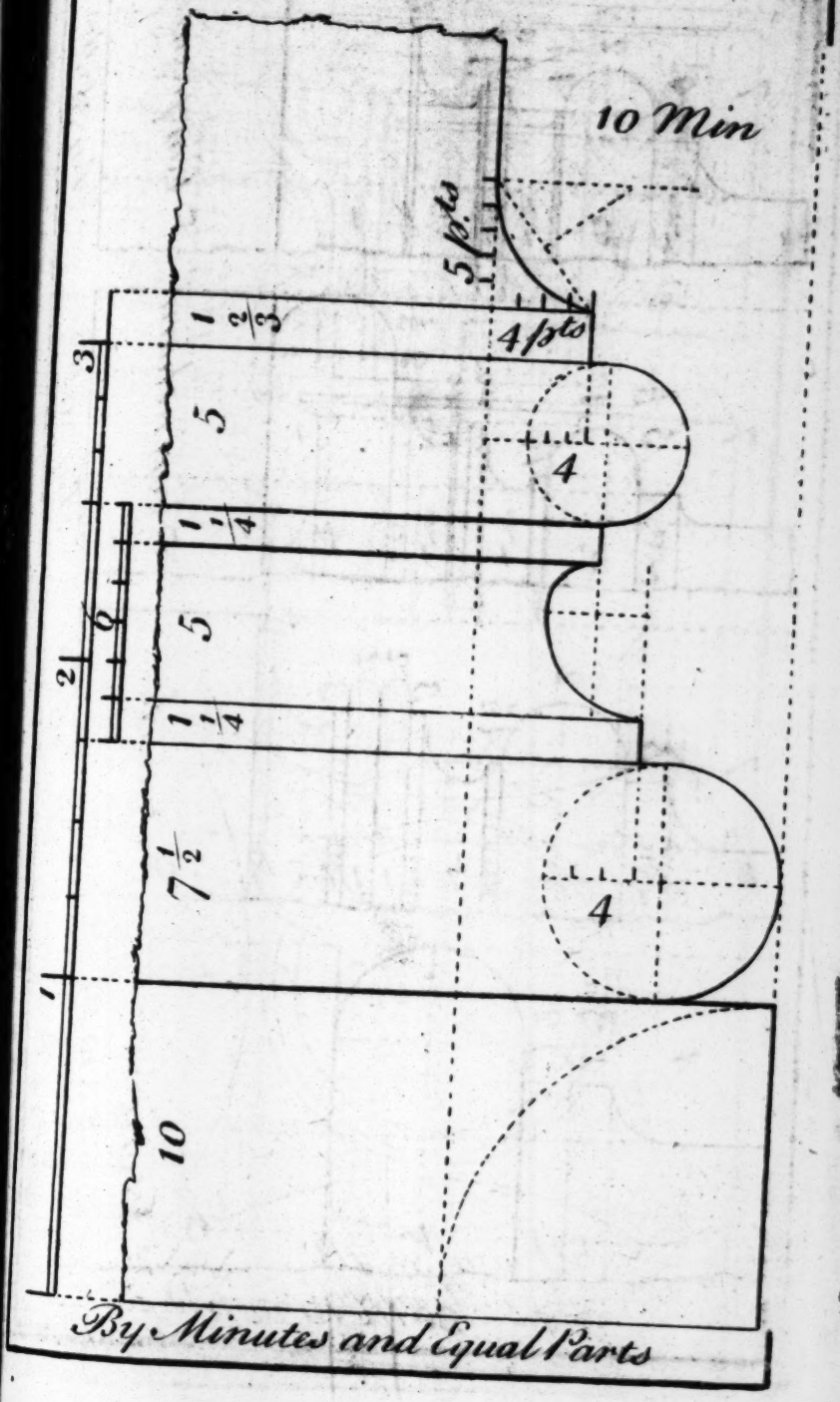


The Composite Capital
By A Palladio.



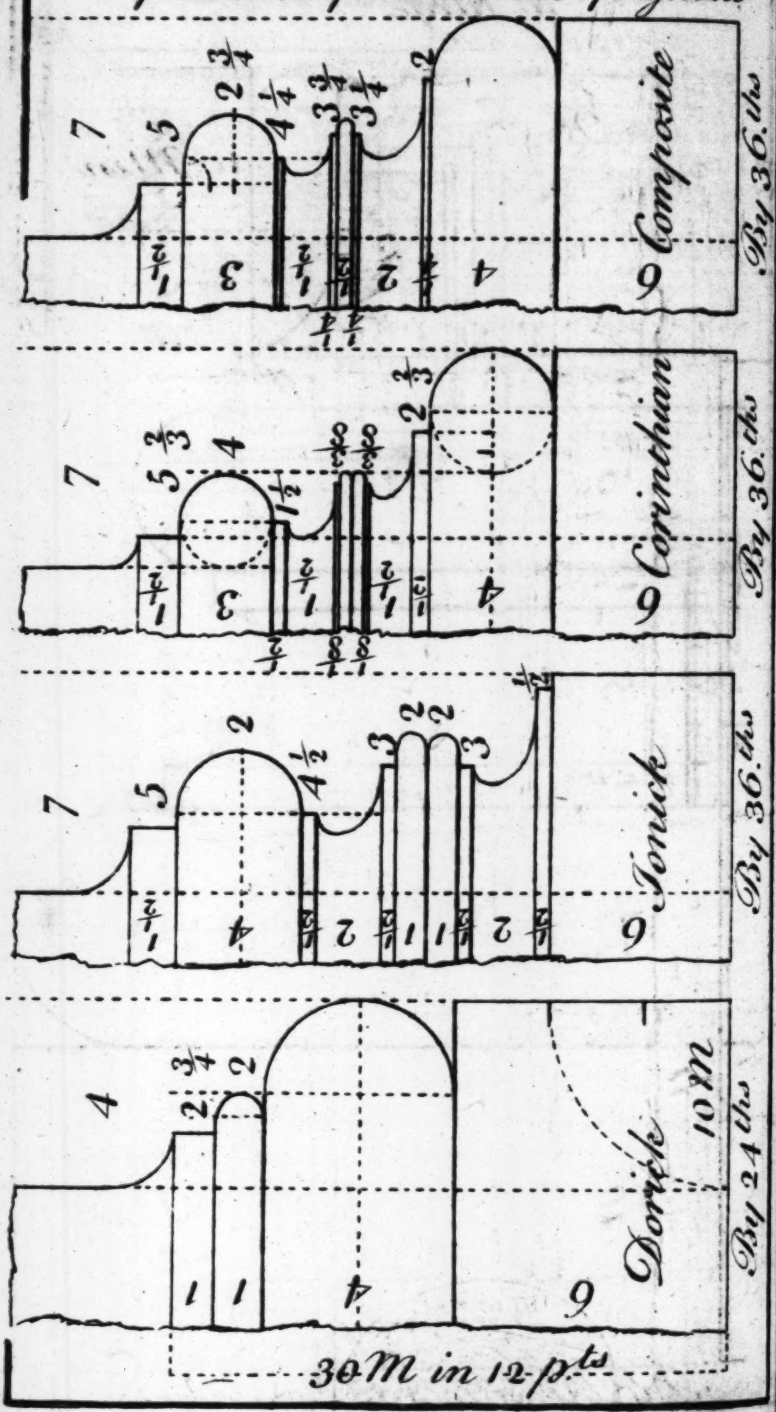
1 Diam. 30 M
By Minutes.

The Athenian or Attic Base at large

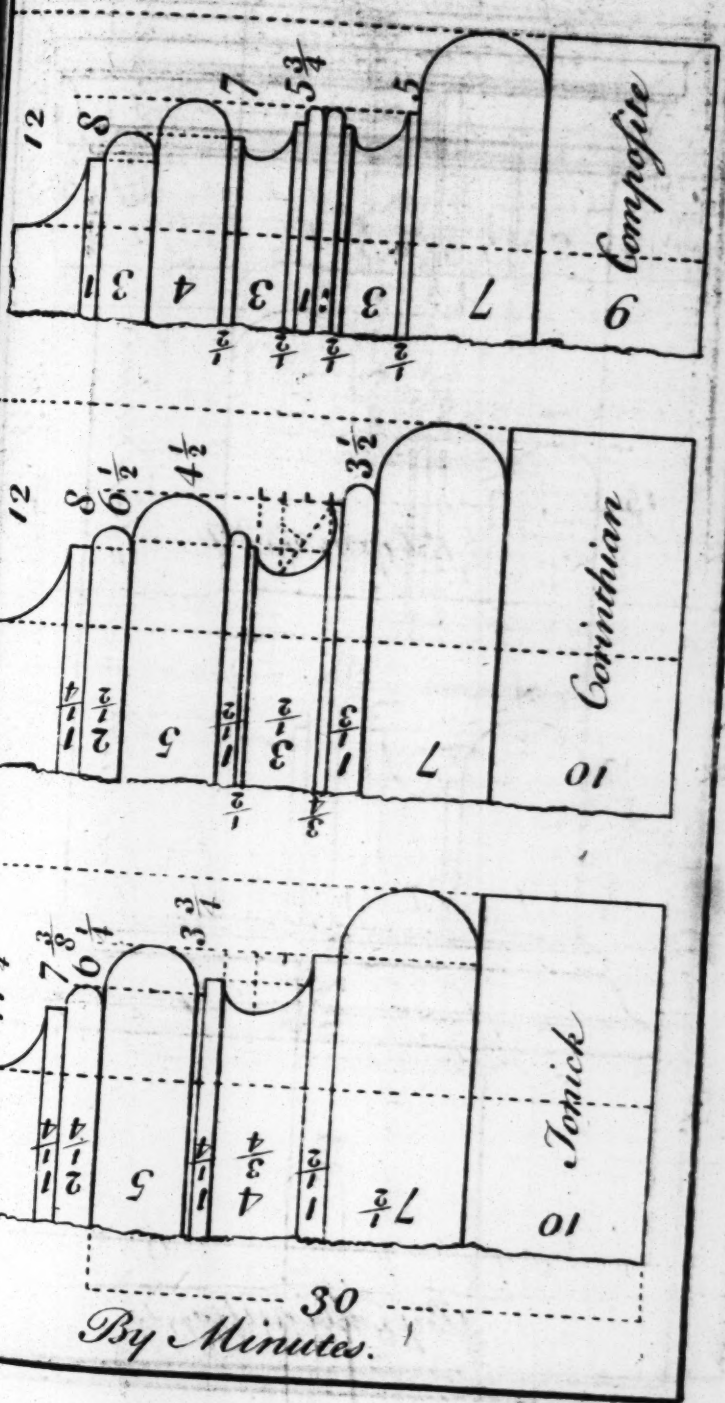


By Minutes and Equal Parts

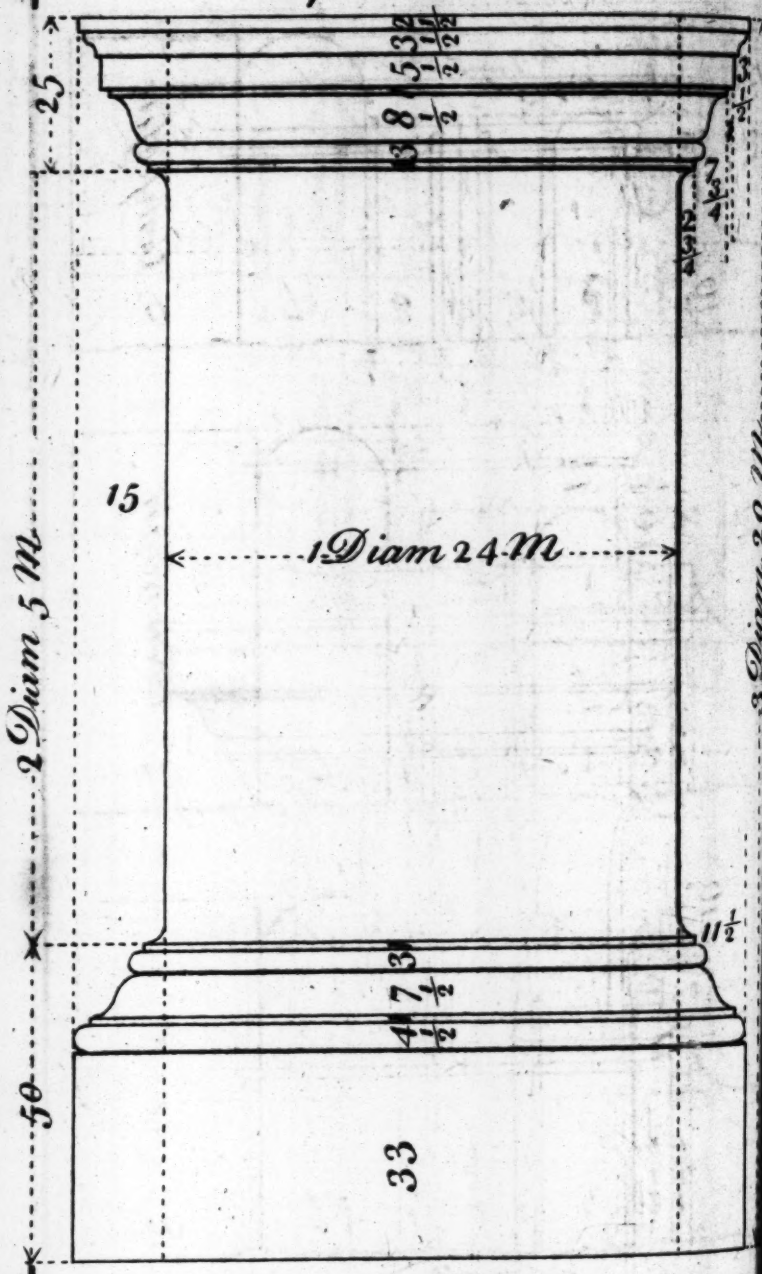
Bases of Columns taken from y^e Antiquities of Rome, By G Barozzio of Vignola



Bases of Columns. By A Palladio.

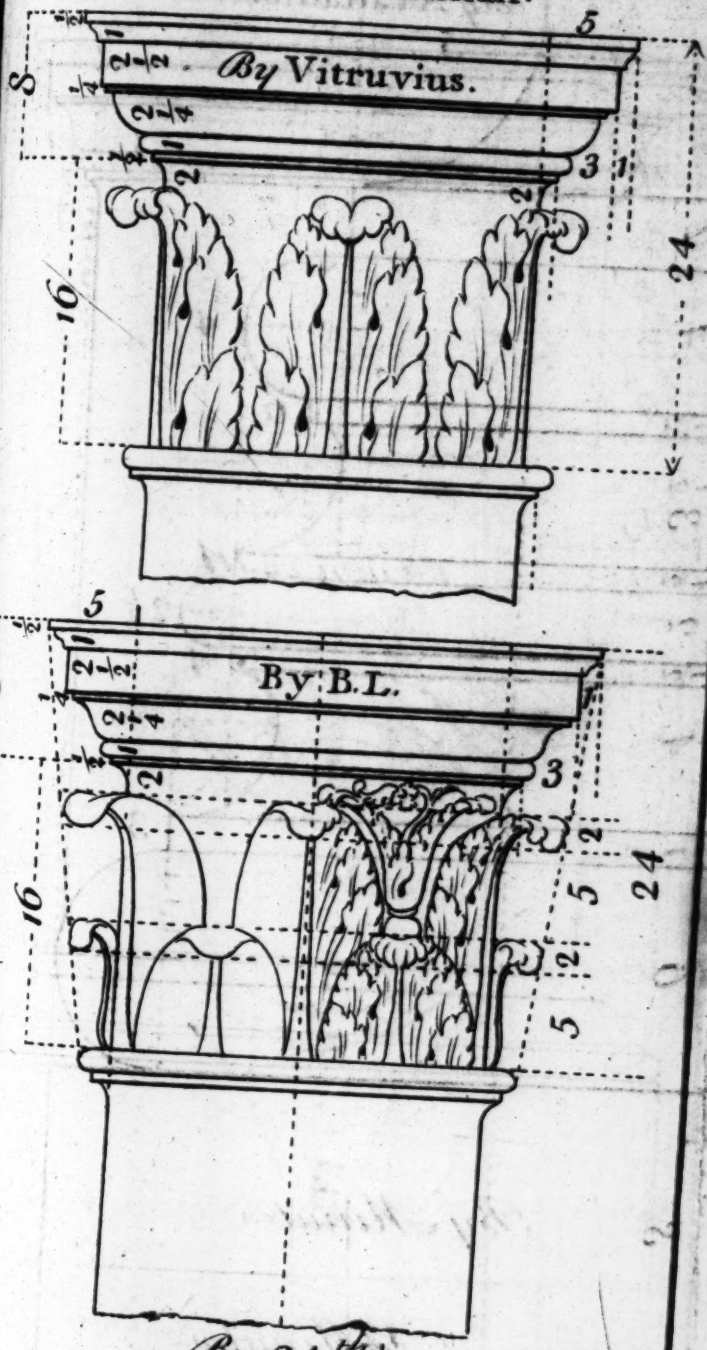


The Compoſite Pedeſtal By A Palladio.

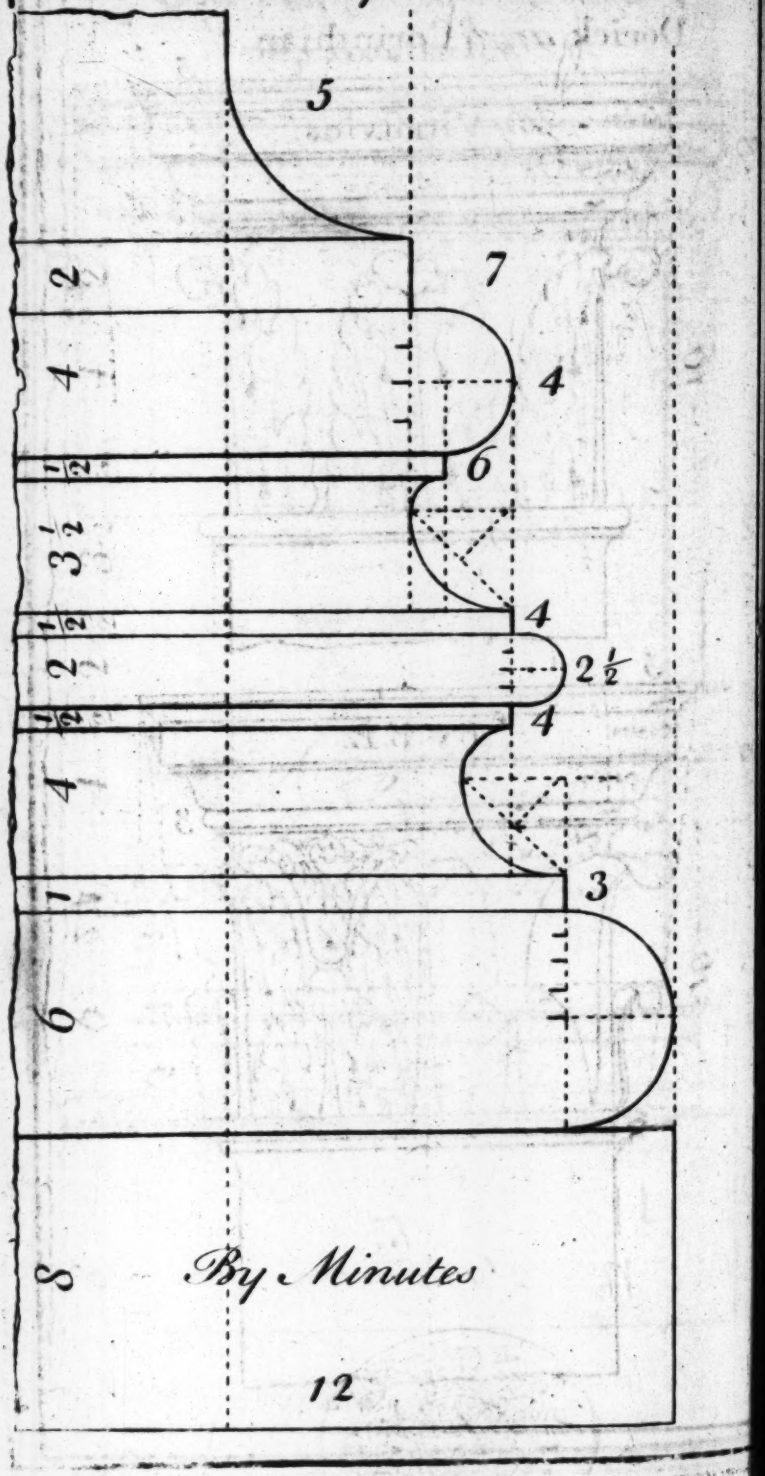


By Minutes.

Compoſite *Capitals Compoſed of the* Dorick *and* Corinthian.

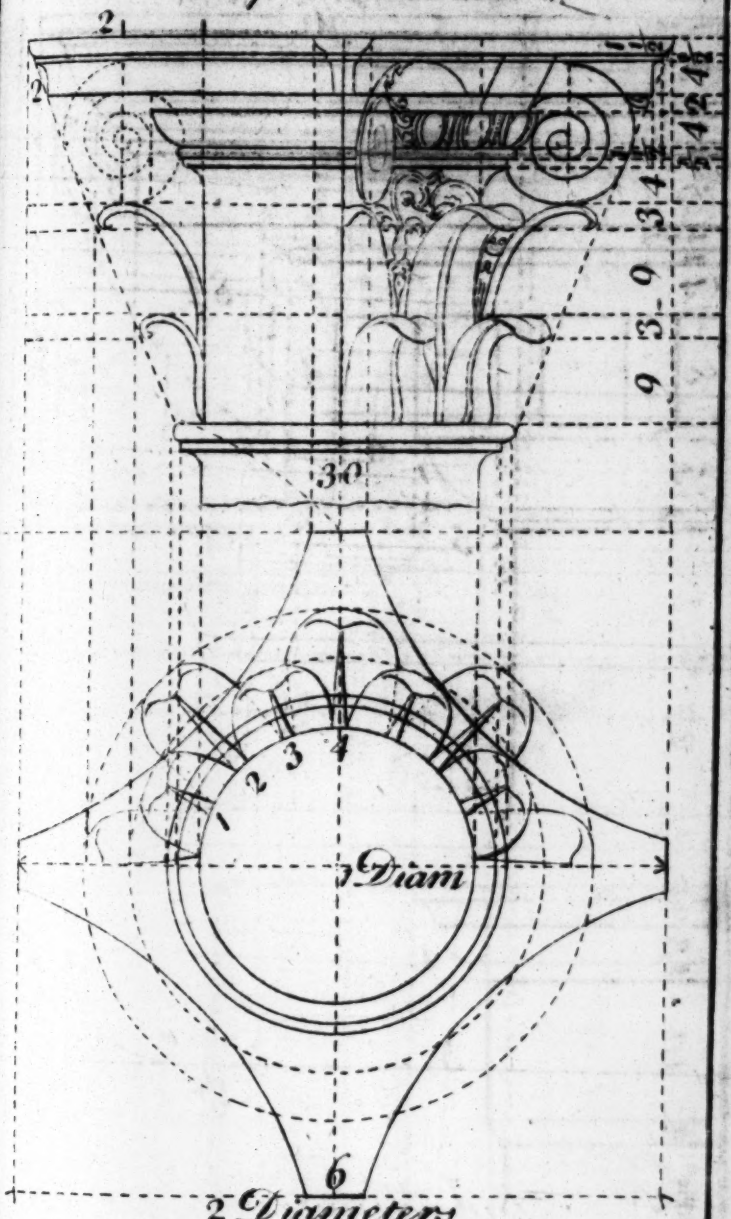


Compolite *Base from the* Ancients.

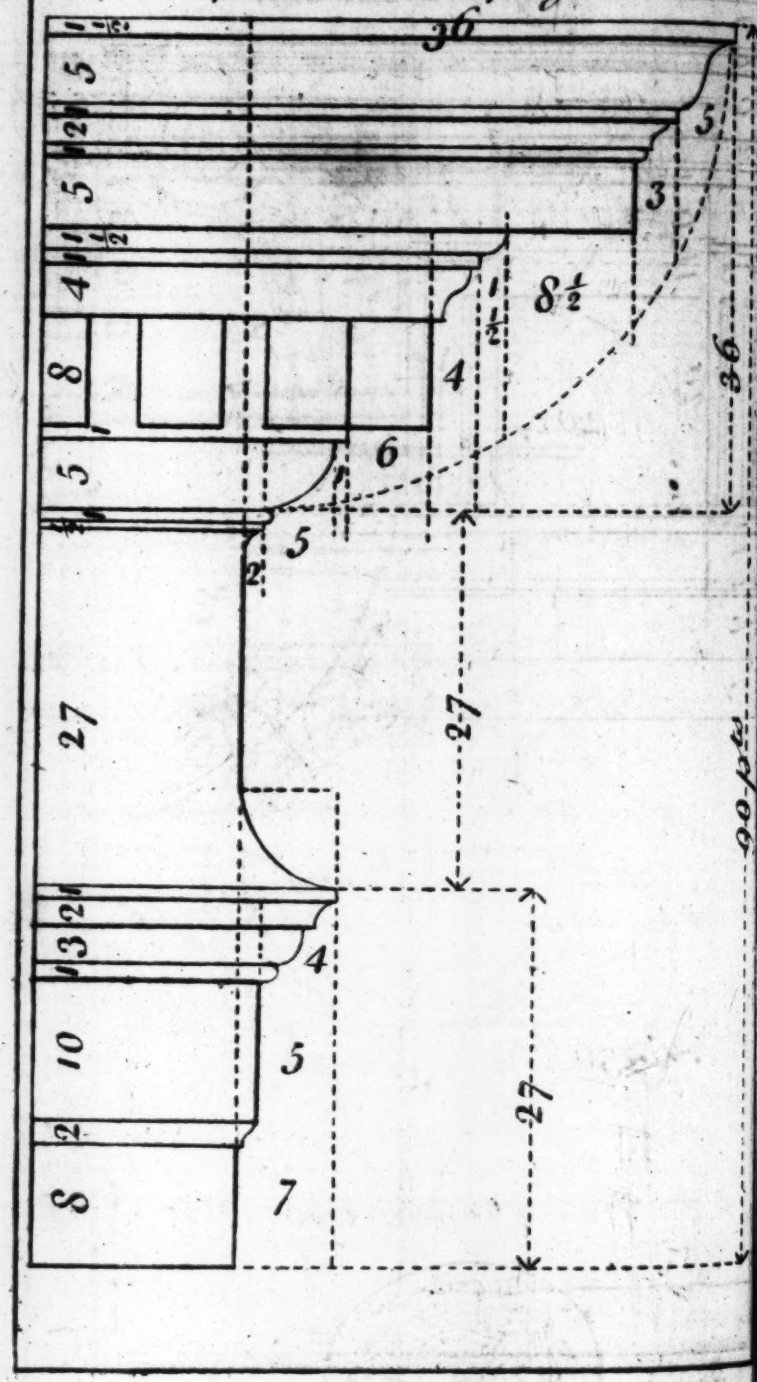


The Compolite Capital

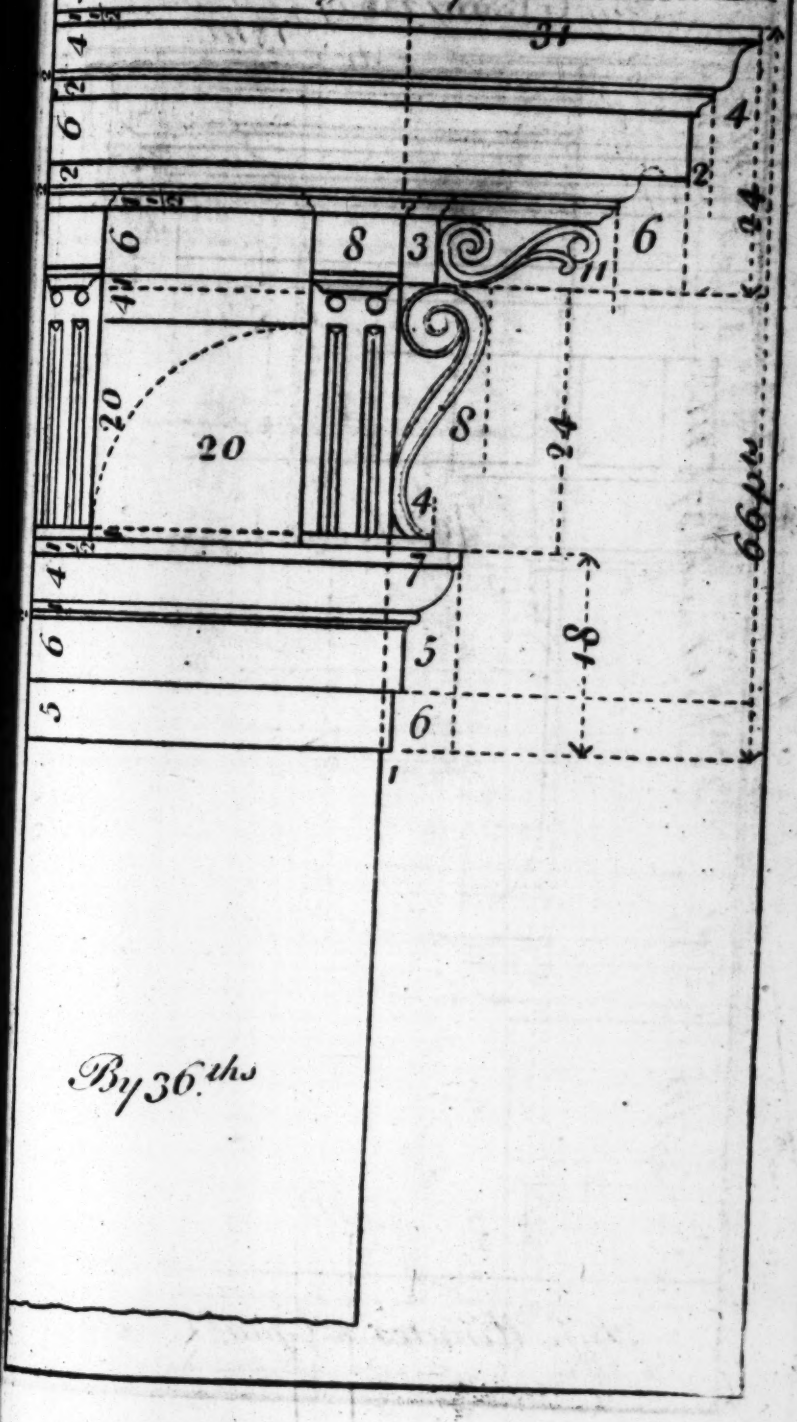
By G. Barozzio.



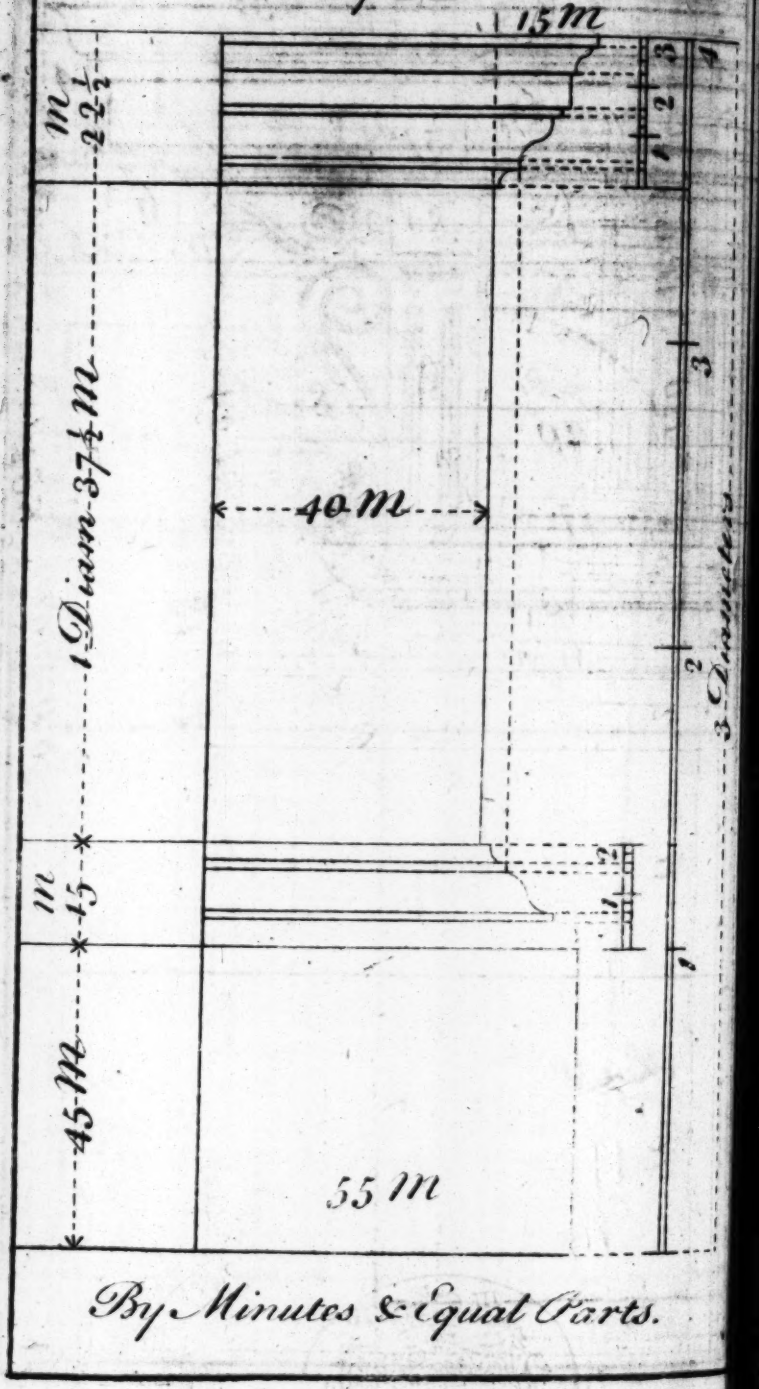
The Compositе Entablature, By G Barozzio of Vignola.



A Second Composite Entablature One 11th of the entire Height. By G. Barozzio.

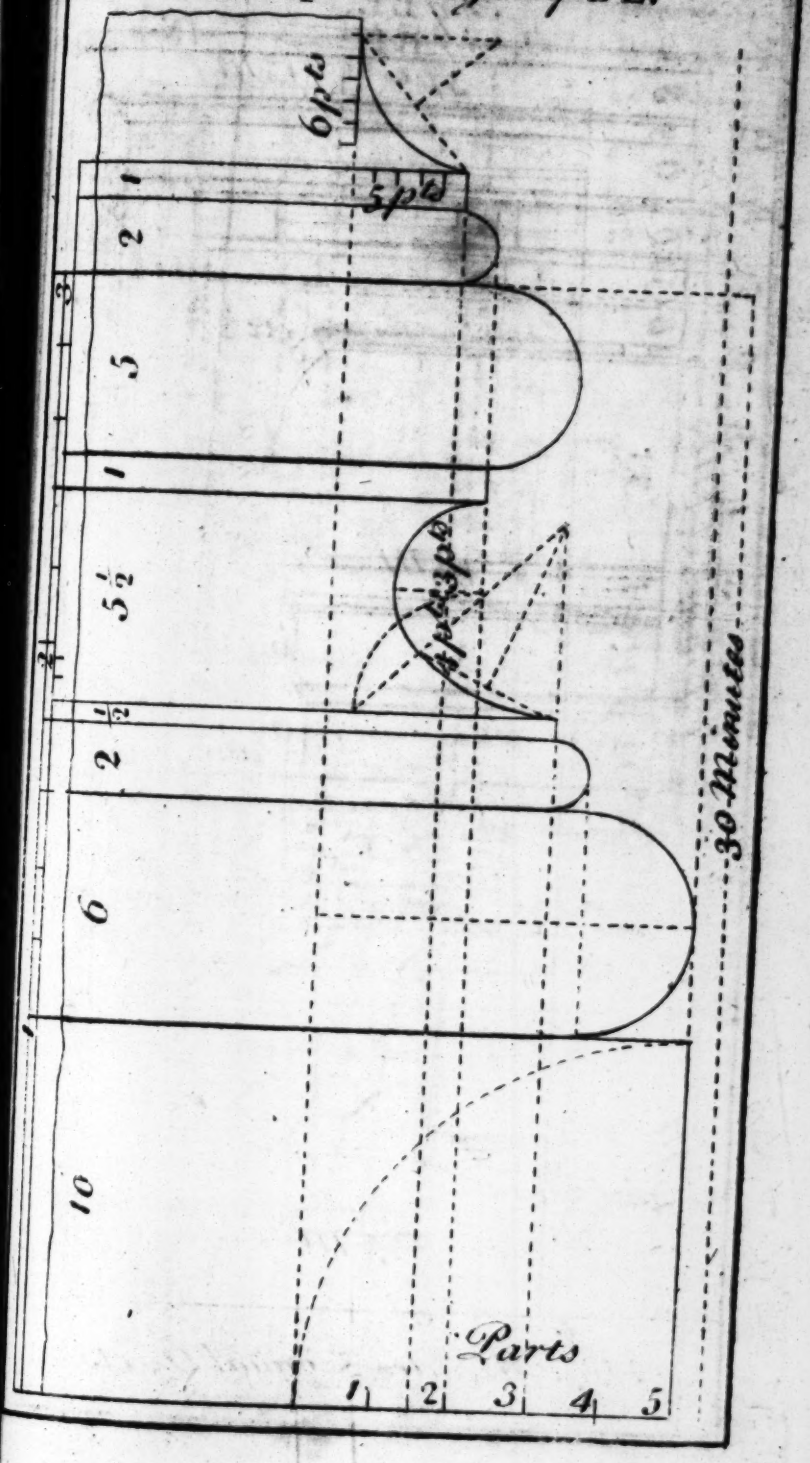


The Compolite Pedestal
By B L.



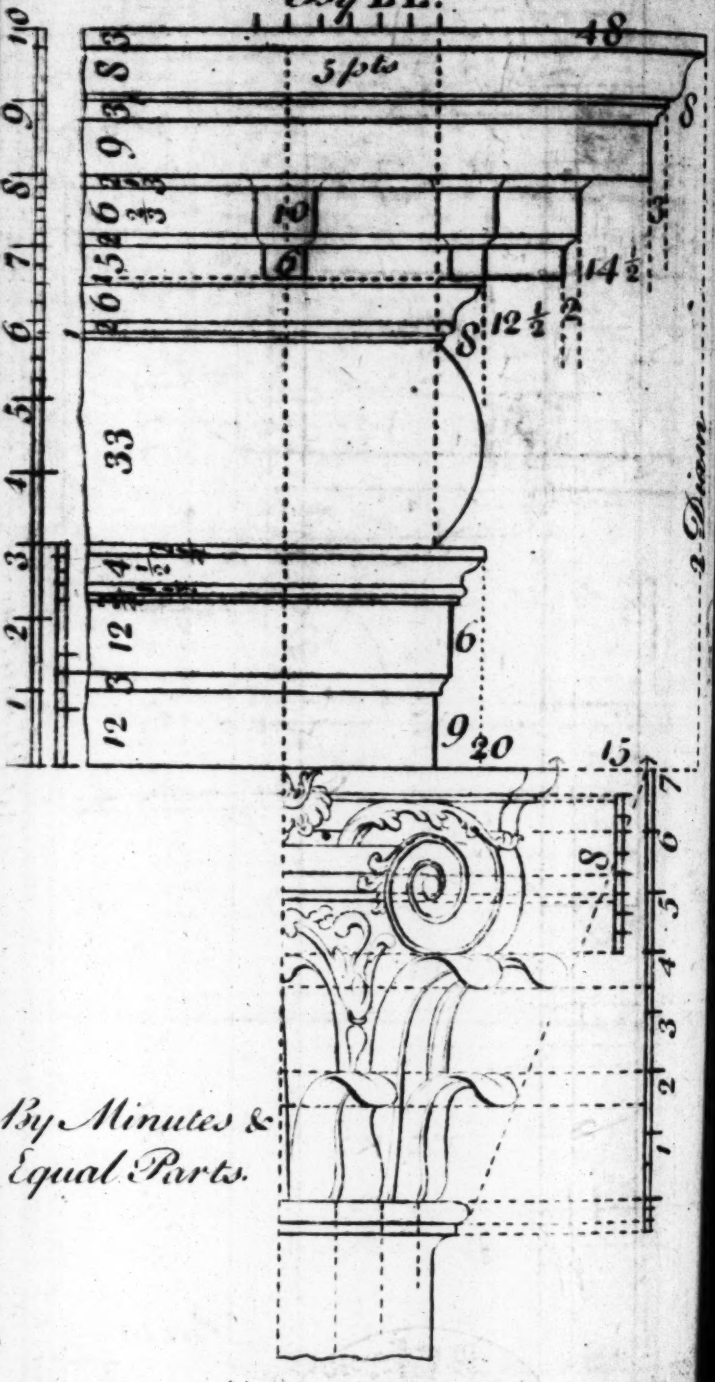
By Minutes & Equal Parts.

The Composite Base by BL.



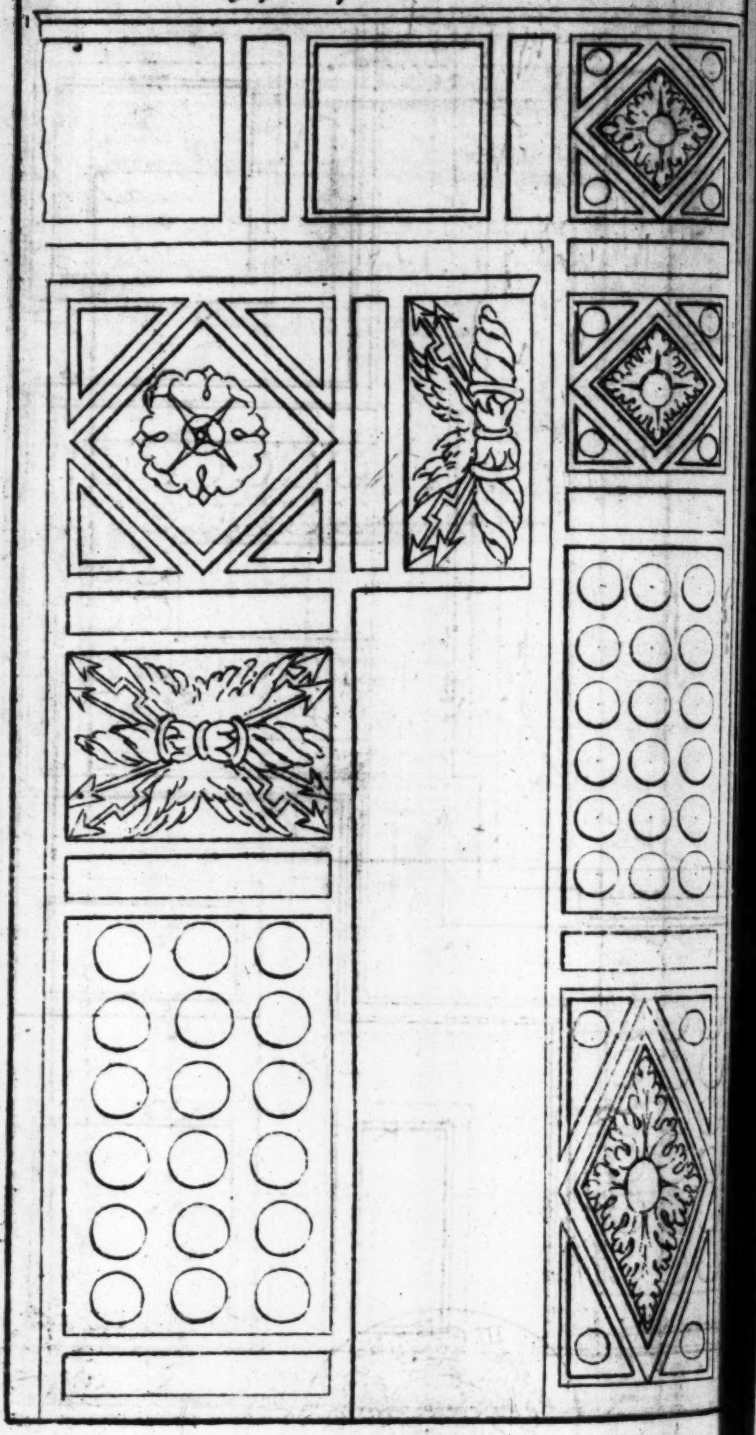
The Composite Capital & Entablature.

By B L.

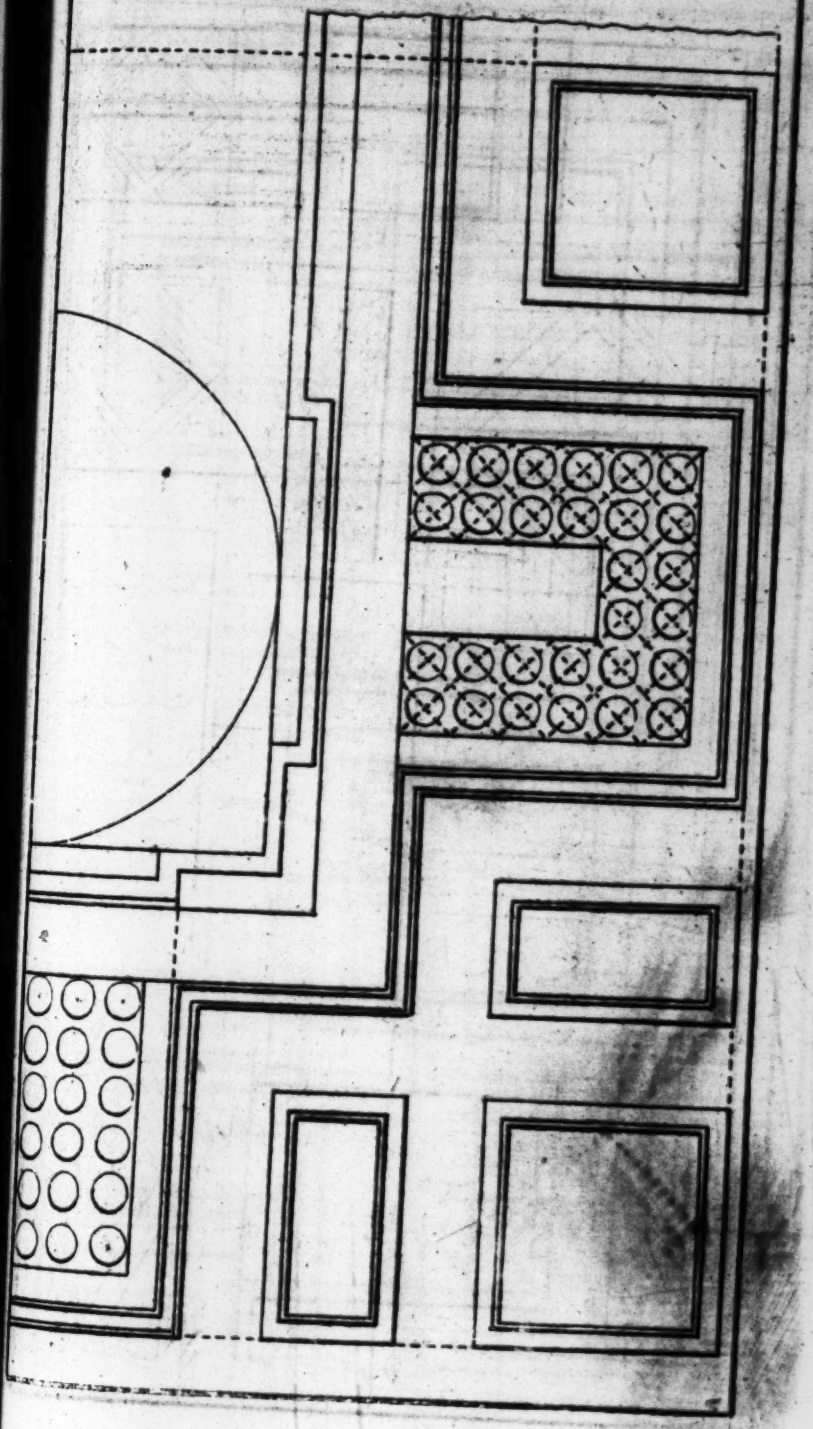


The Composite Modilion.

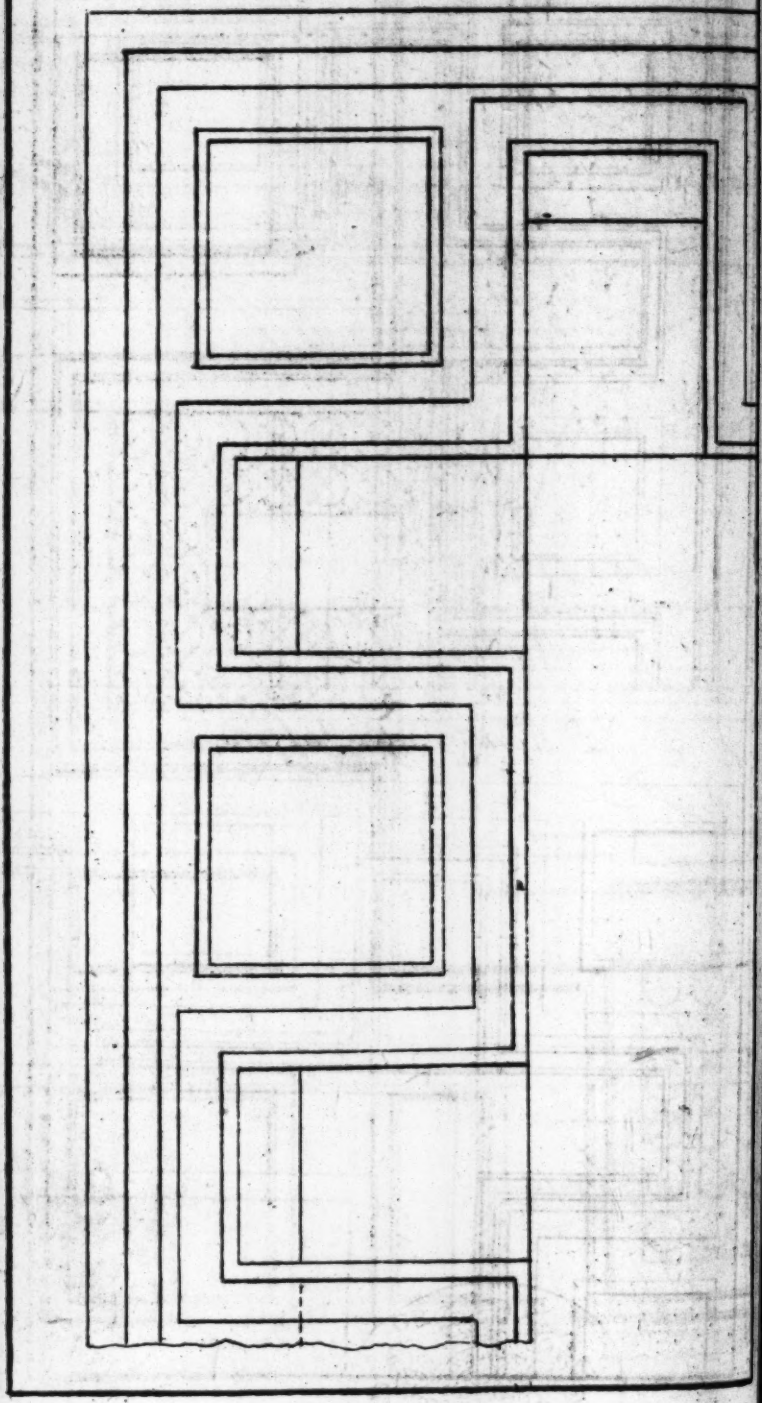
Dorick Soffits from the Ancients.



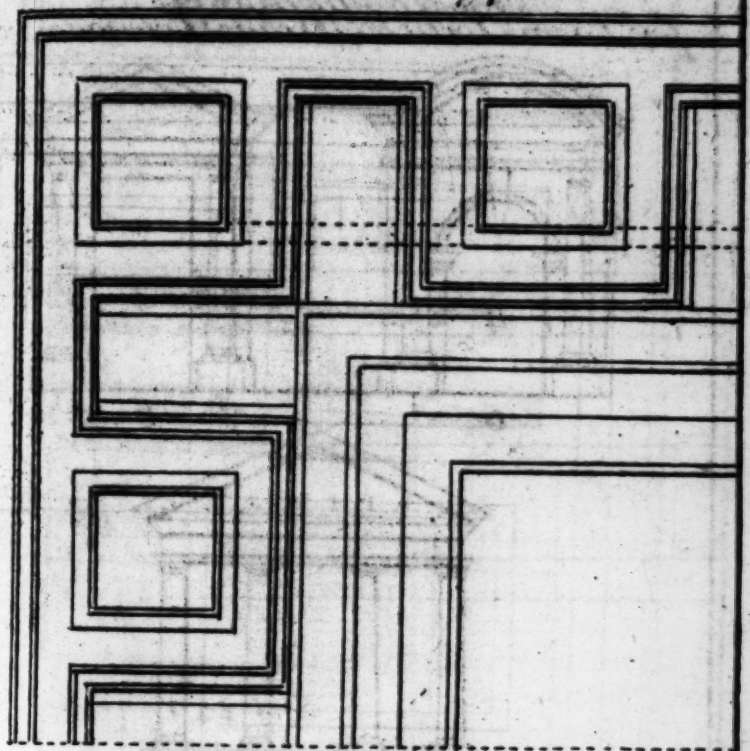
Dorick Soffit.



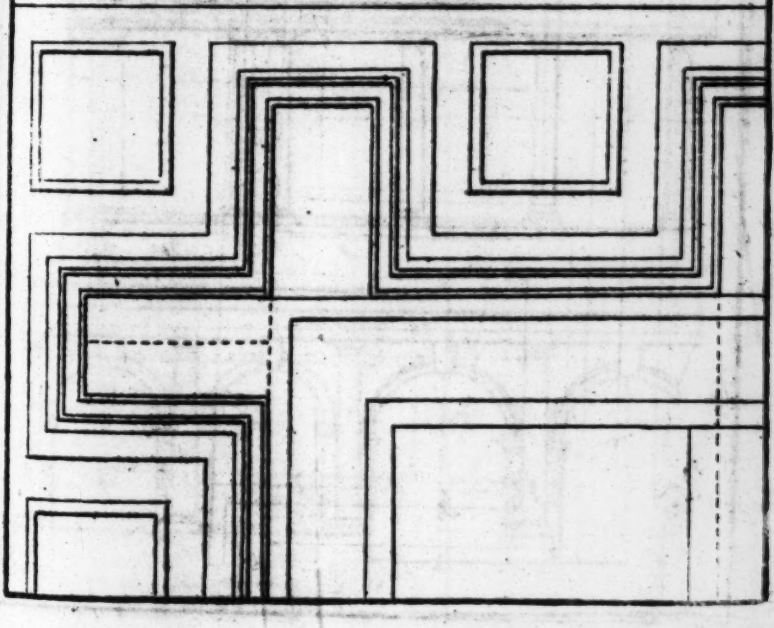
Ionick Soffits.



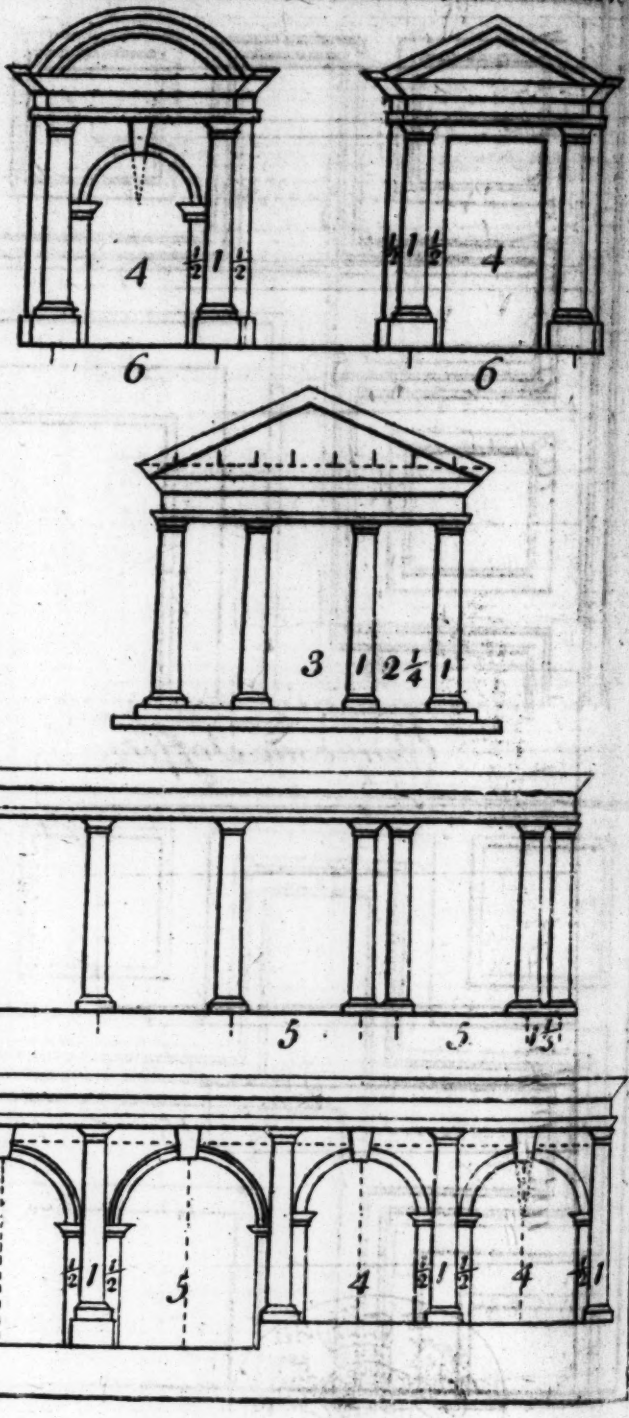
Corinthian Soffits.



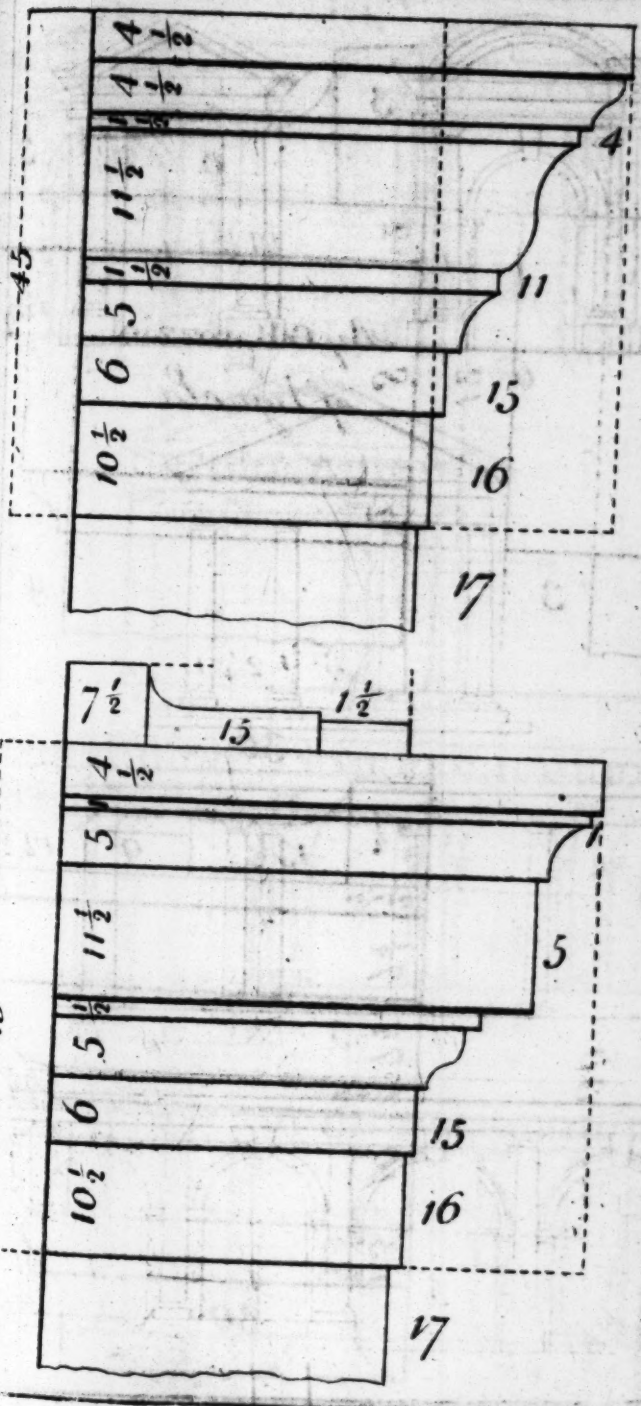
Composite Soffits.



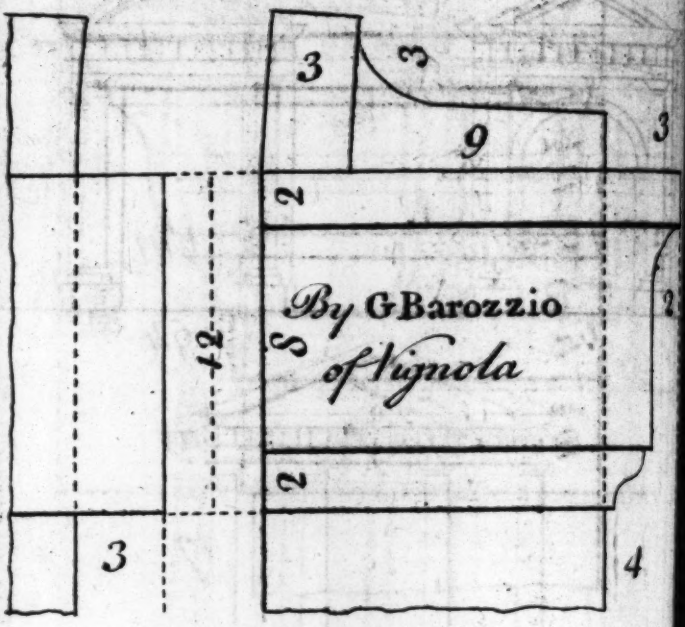
Sketches of Tuscan *Intercolumnations for Doors, Portico's, Arcades, Colonades, &c*

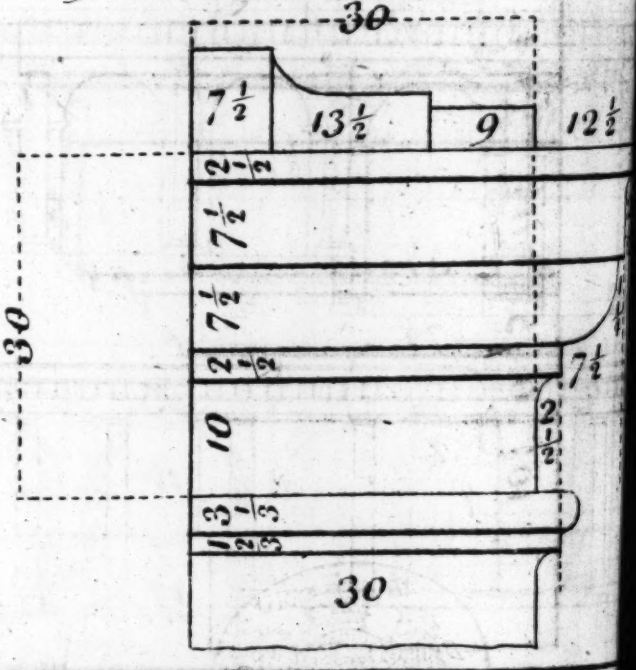


Tuſcan *Impoſts by* A. Palladio.

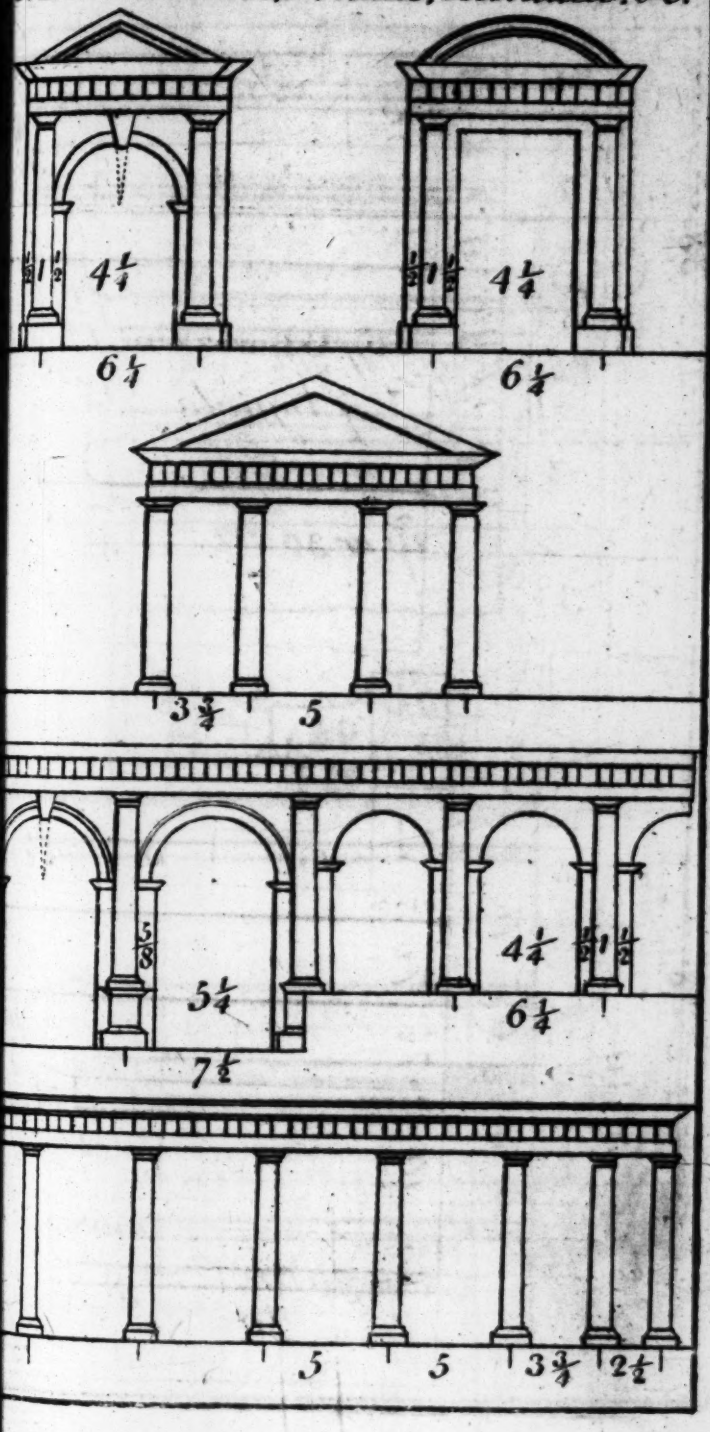


Tuscan *Impostes.*

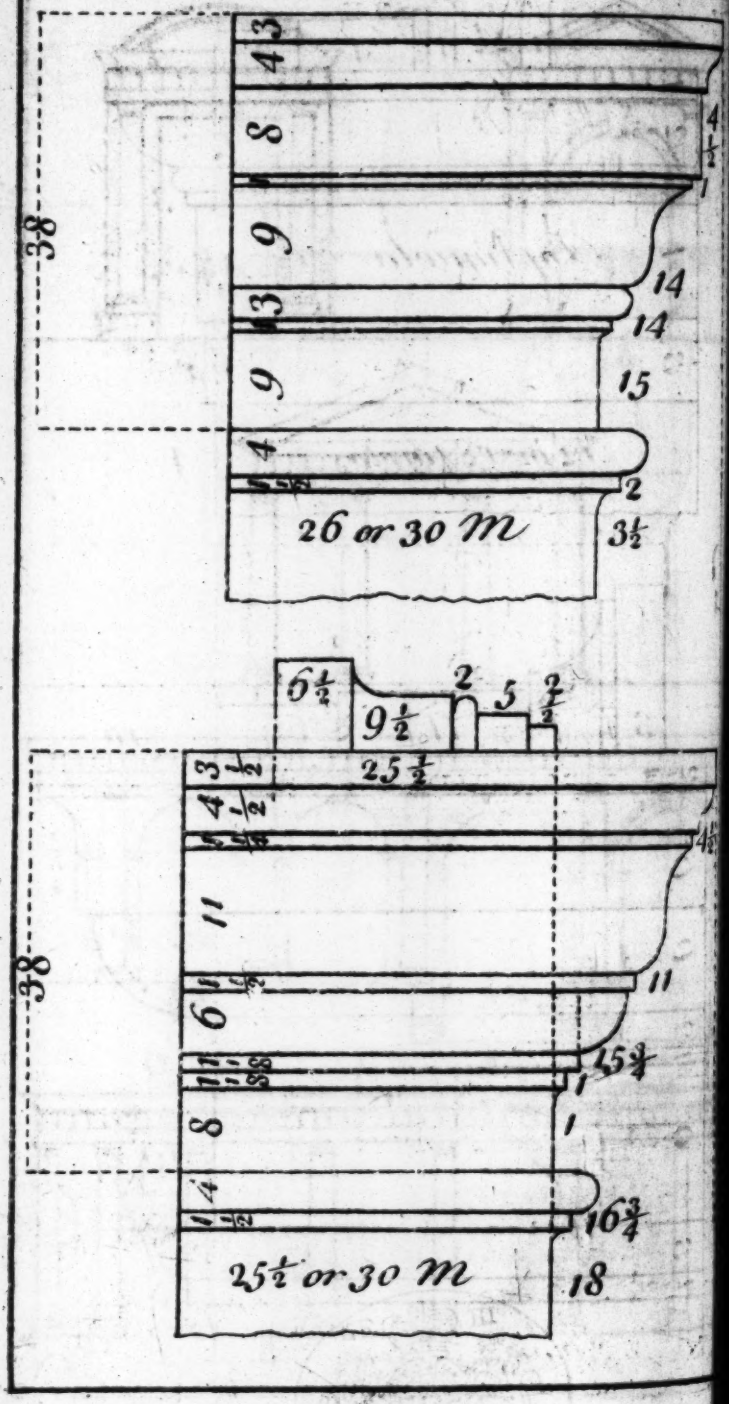




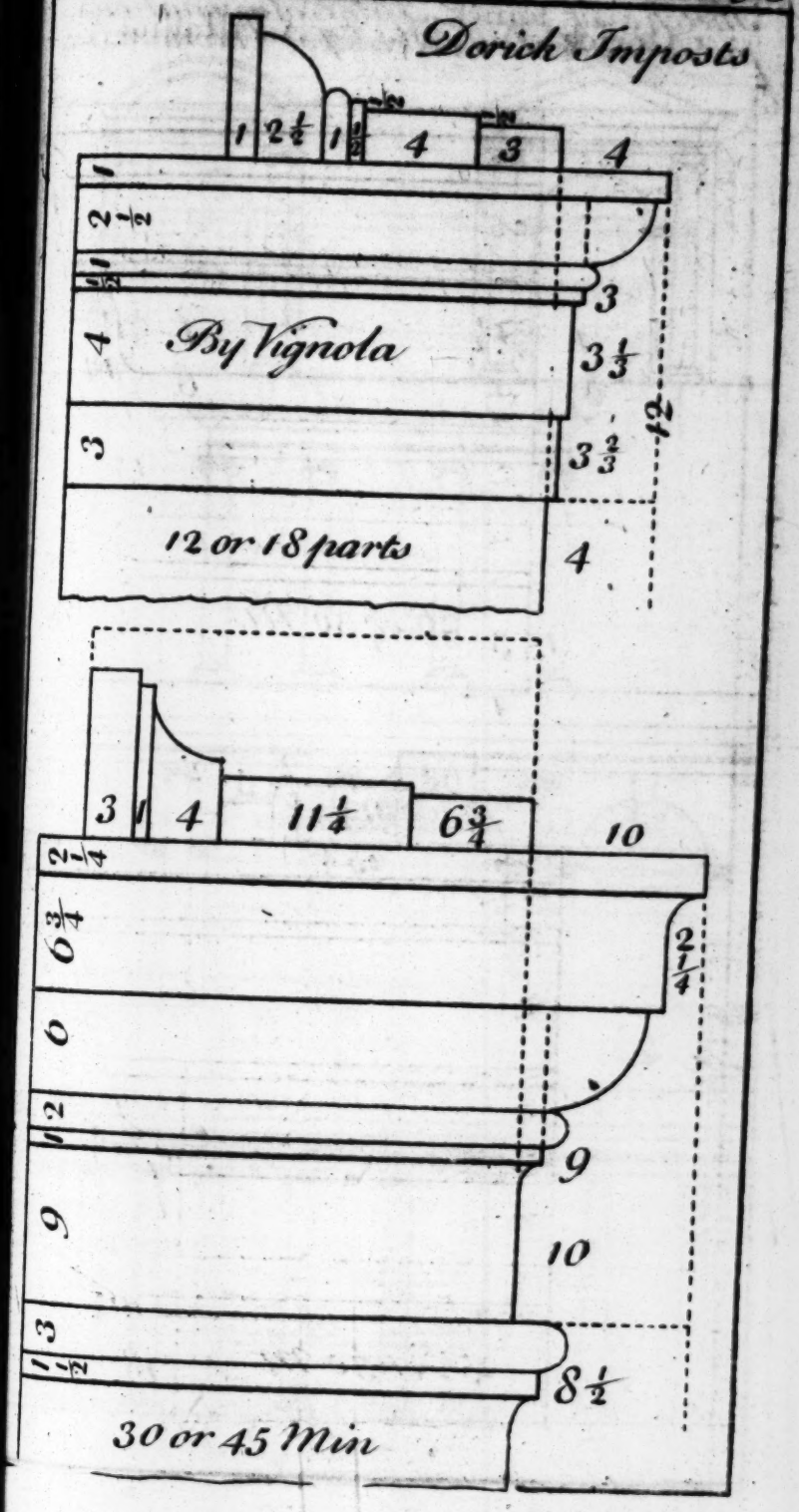
Sketches of Dorick Intercolumnations, &c. Doors, Porticos, Arcades, Colonades, &c.



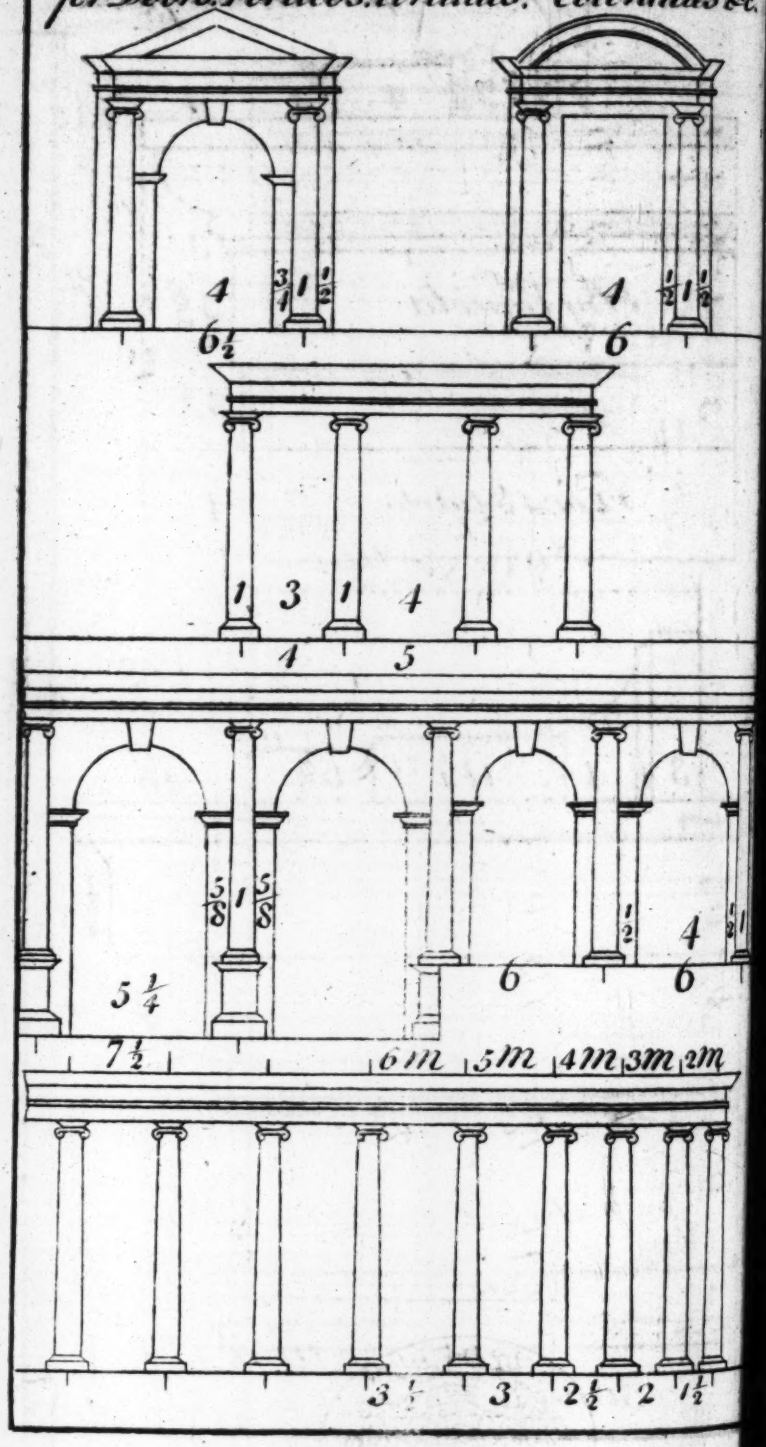
Dorick *Impost by* A. Palladio.



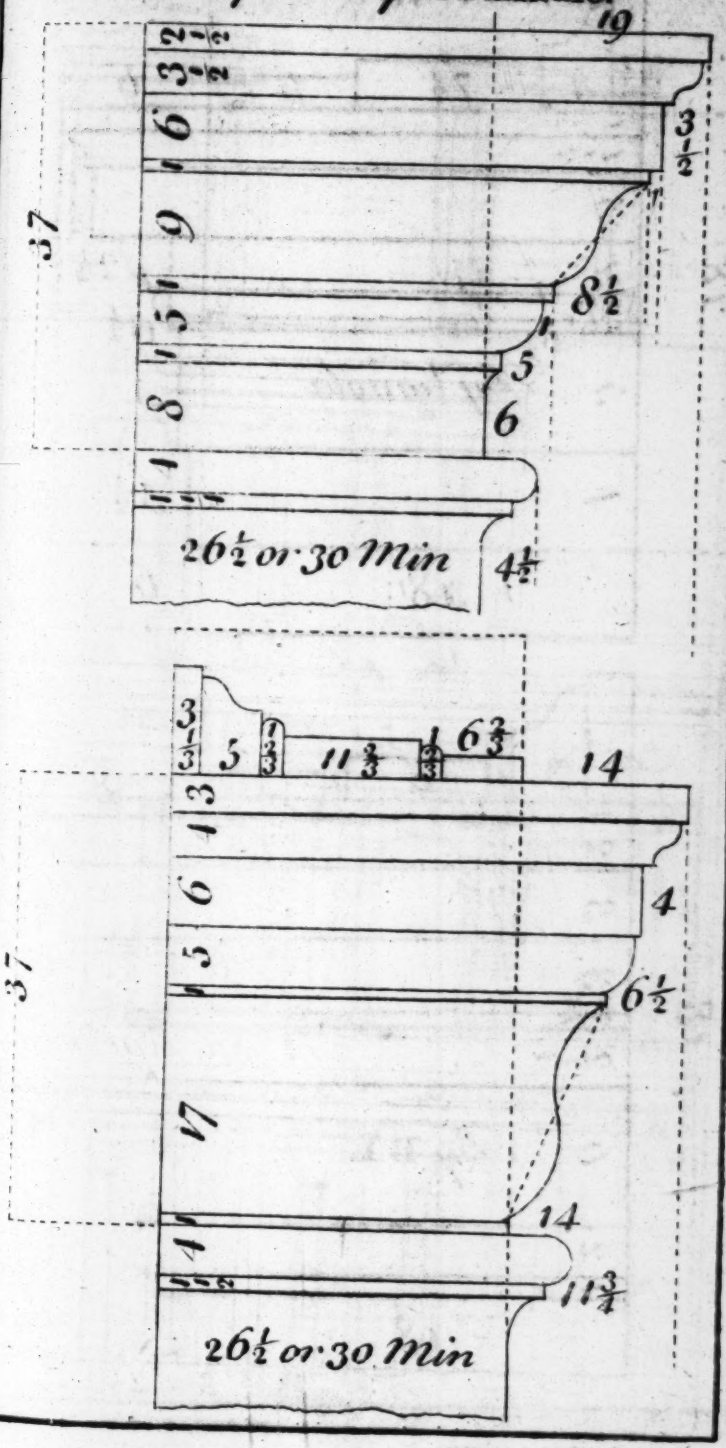
Dorick Imposts



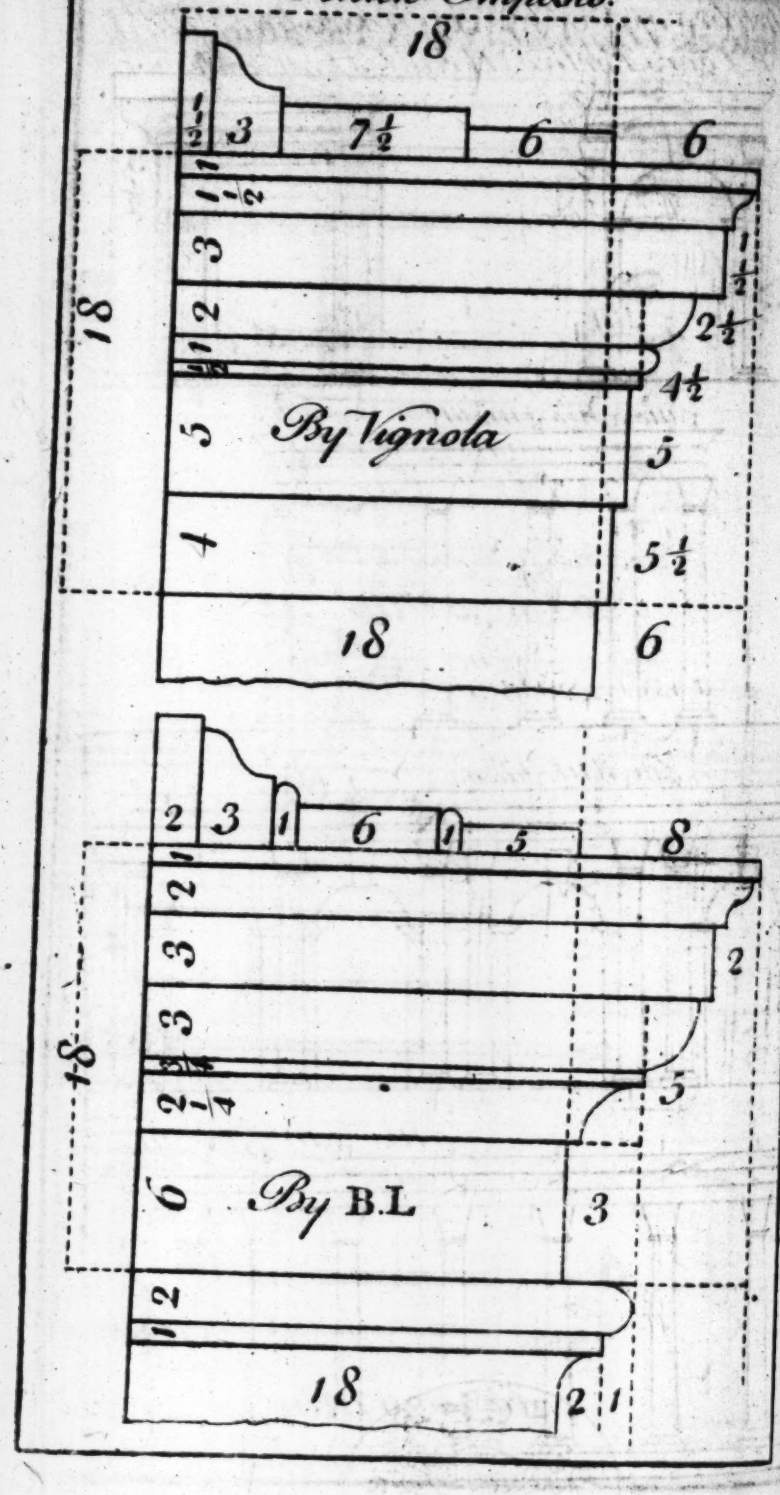
Sketches of Ionick *Intervolumnations for Doors, Portico's, Arcades, Colonades &c.*



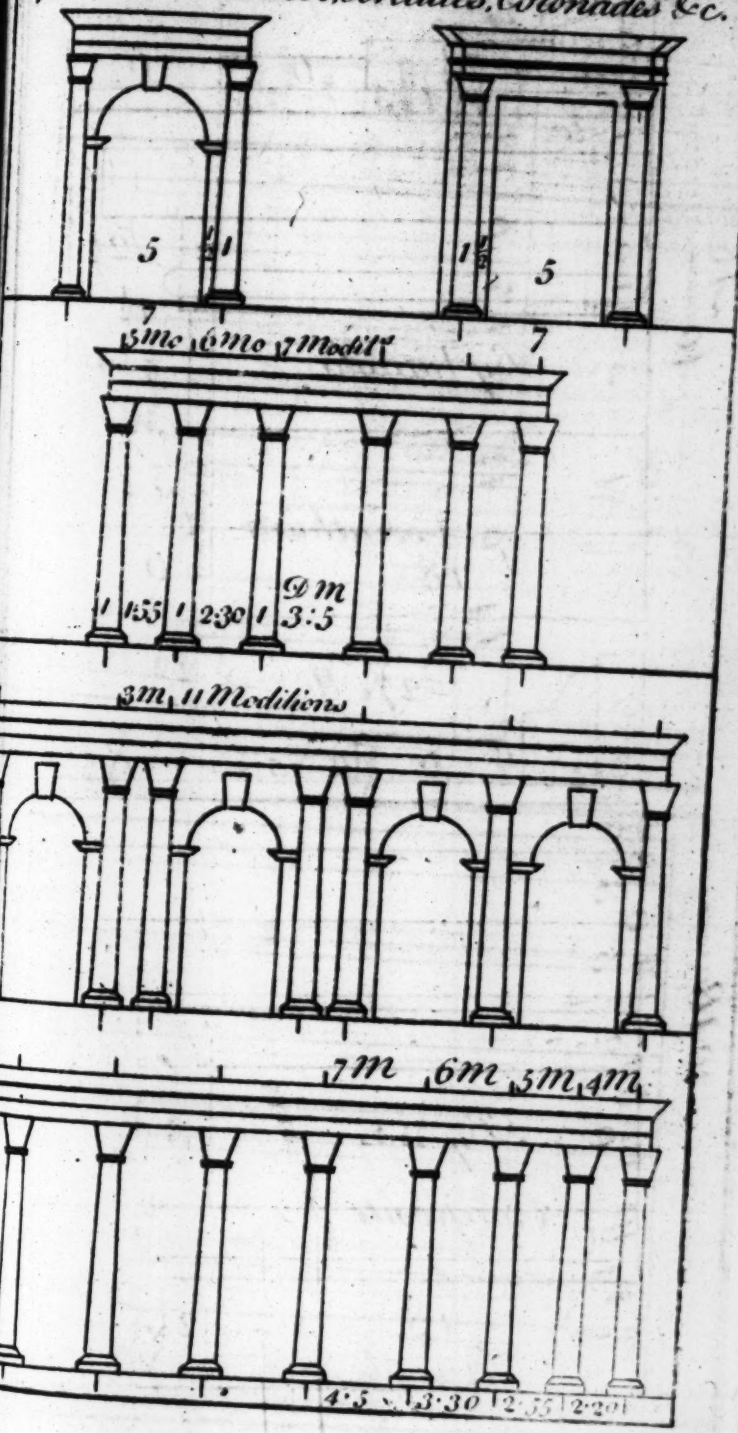
Ionick *Impoots by* A Palladio.

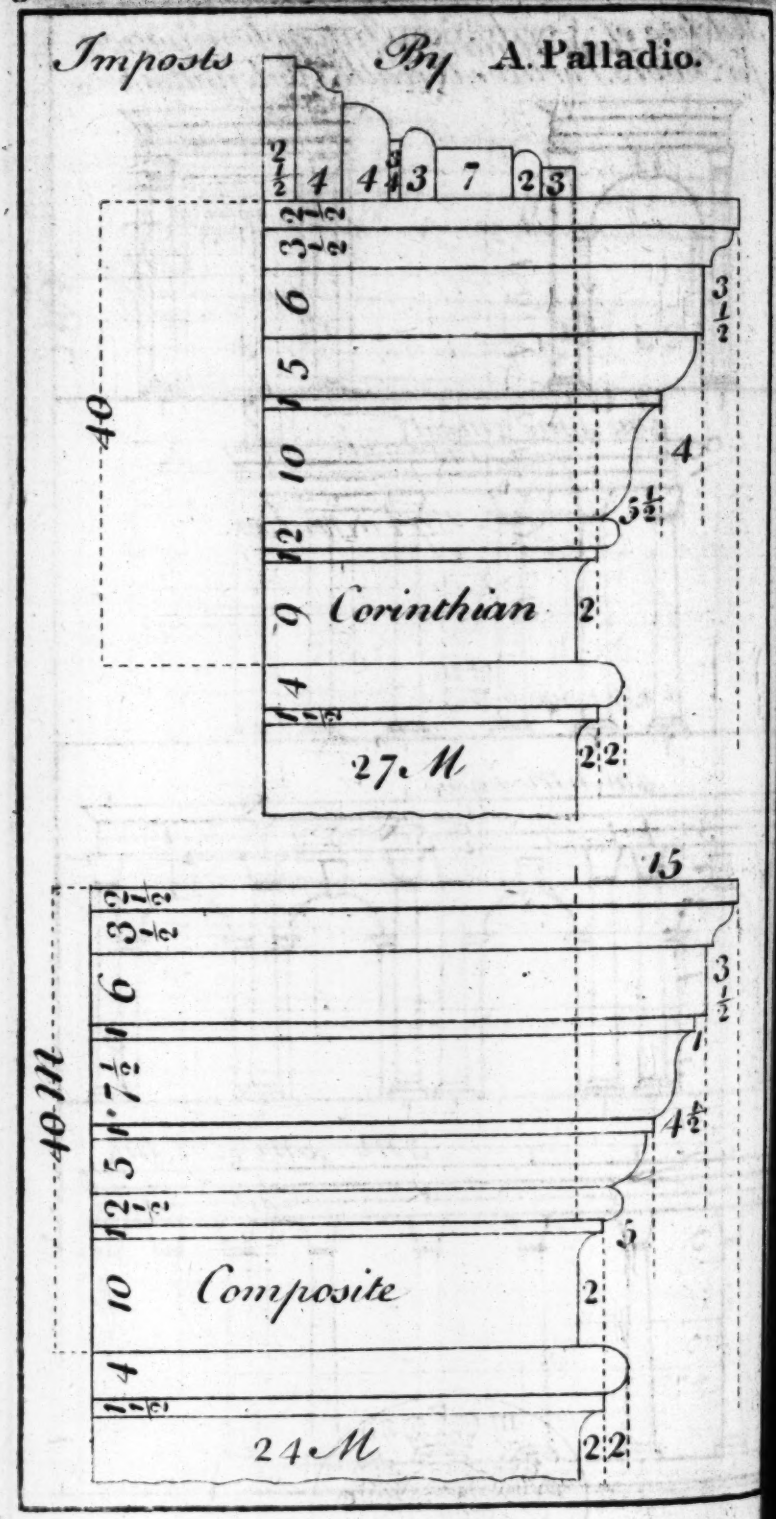


Ionick Impostes.

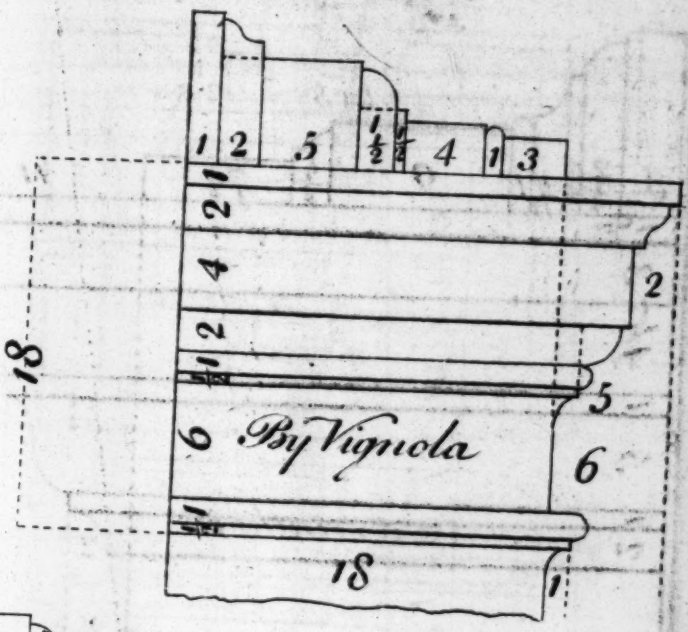


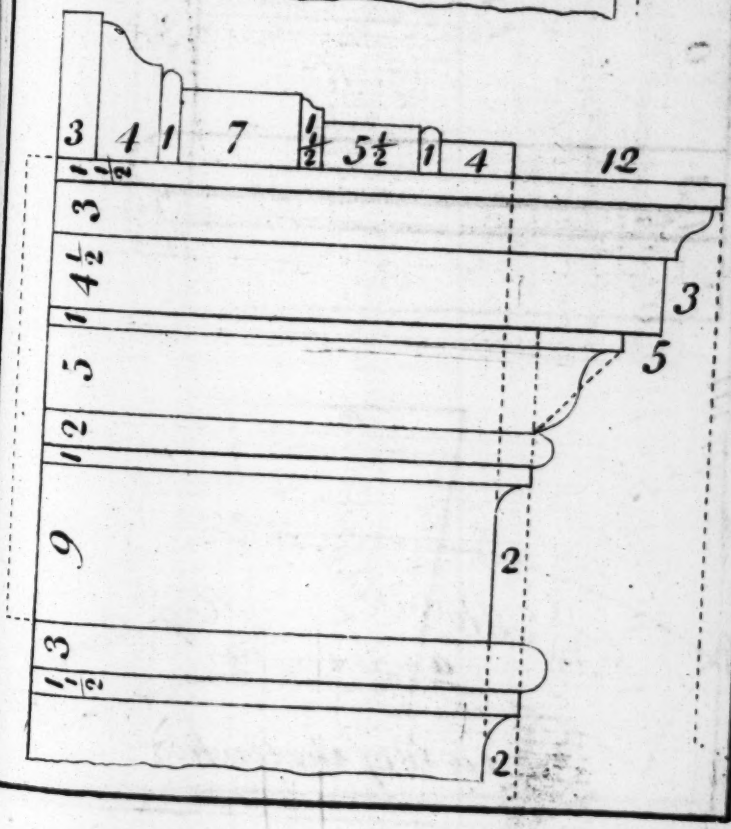
Sketches of Corinthian Intercolumnation for Doors, Porticos, Arcades, Colonades &c.



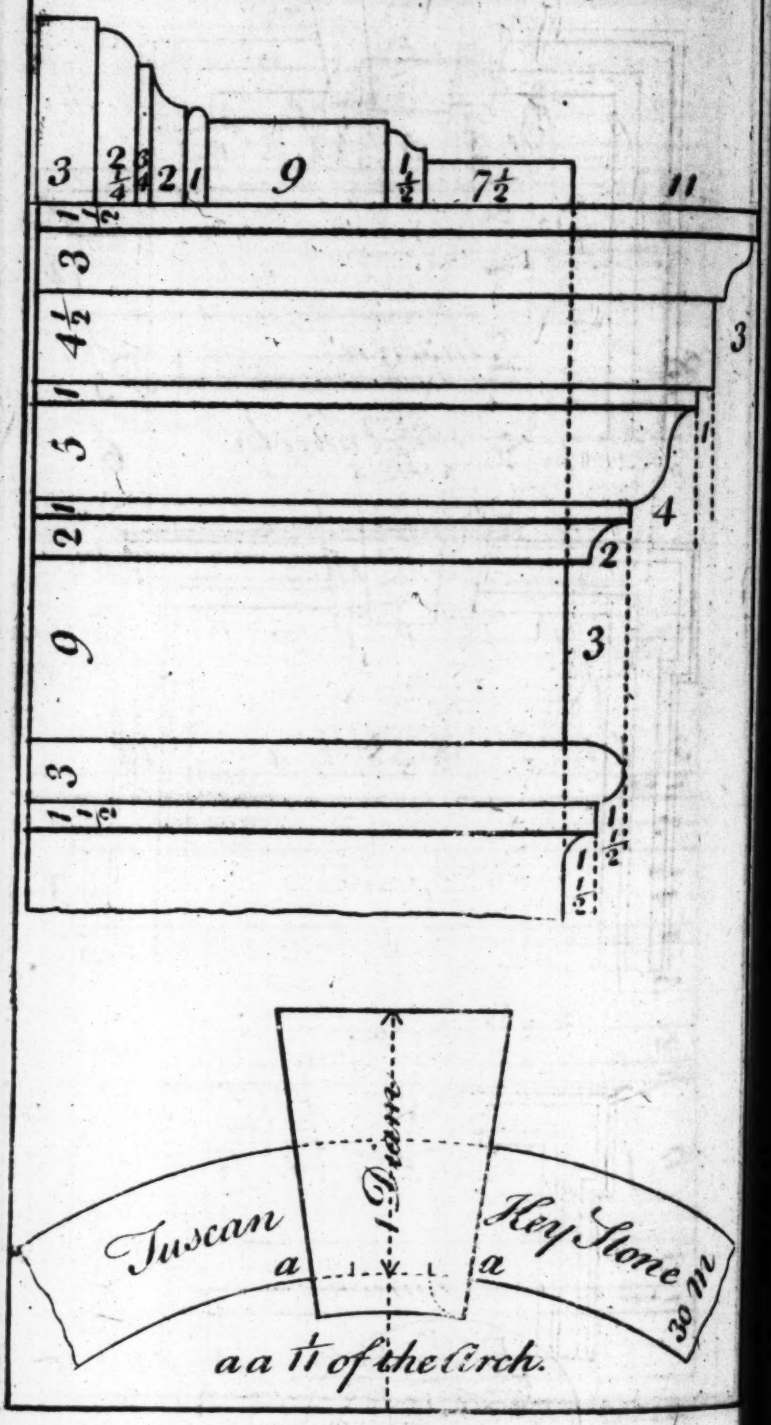

Imposts By A. Palladio.
2½ 4 4 4 3 7 2 3
40
3½ 3½ 6 5 10 12 9 Corinthian 4 27. M
3½ 4 3½ 2 2 2
40 M
15
3½ 3½ 6 1 7½ 5 2½ 10 Composite 4 24 M
3½ 1 4½ 5 2 2 2

Corinthian Imposts.

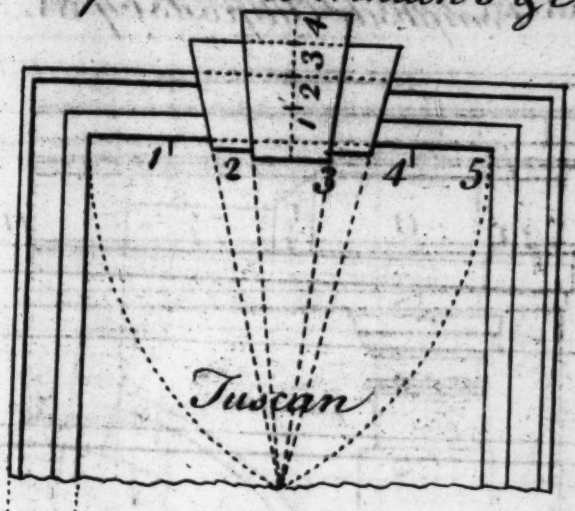


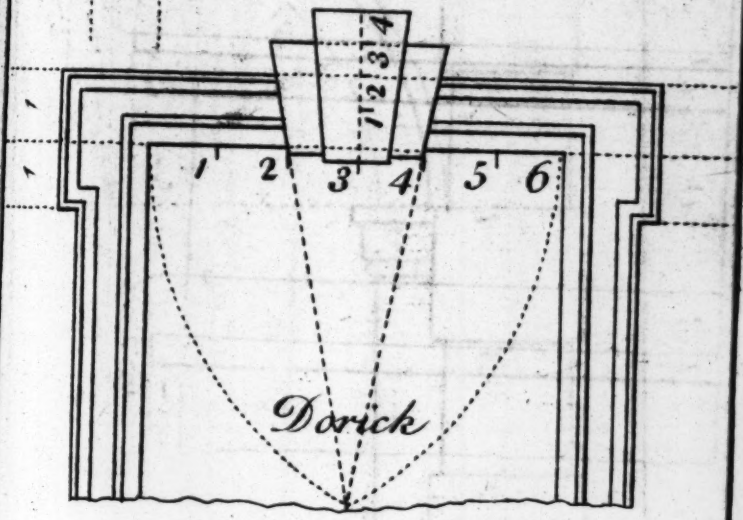


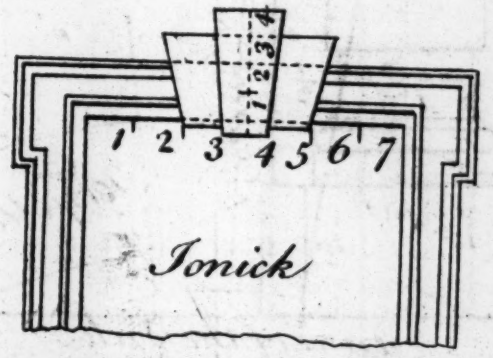
Composite Imposts by BL.



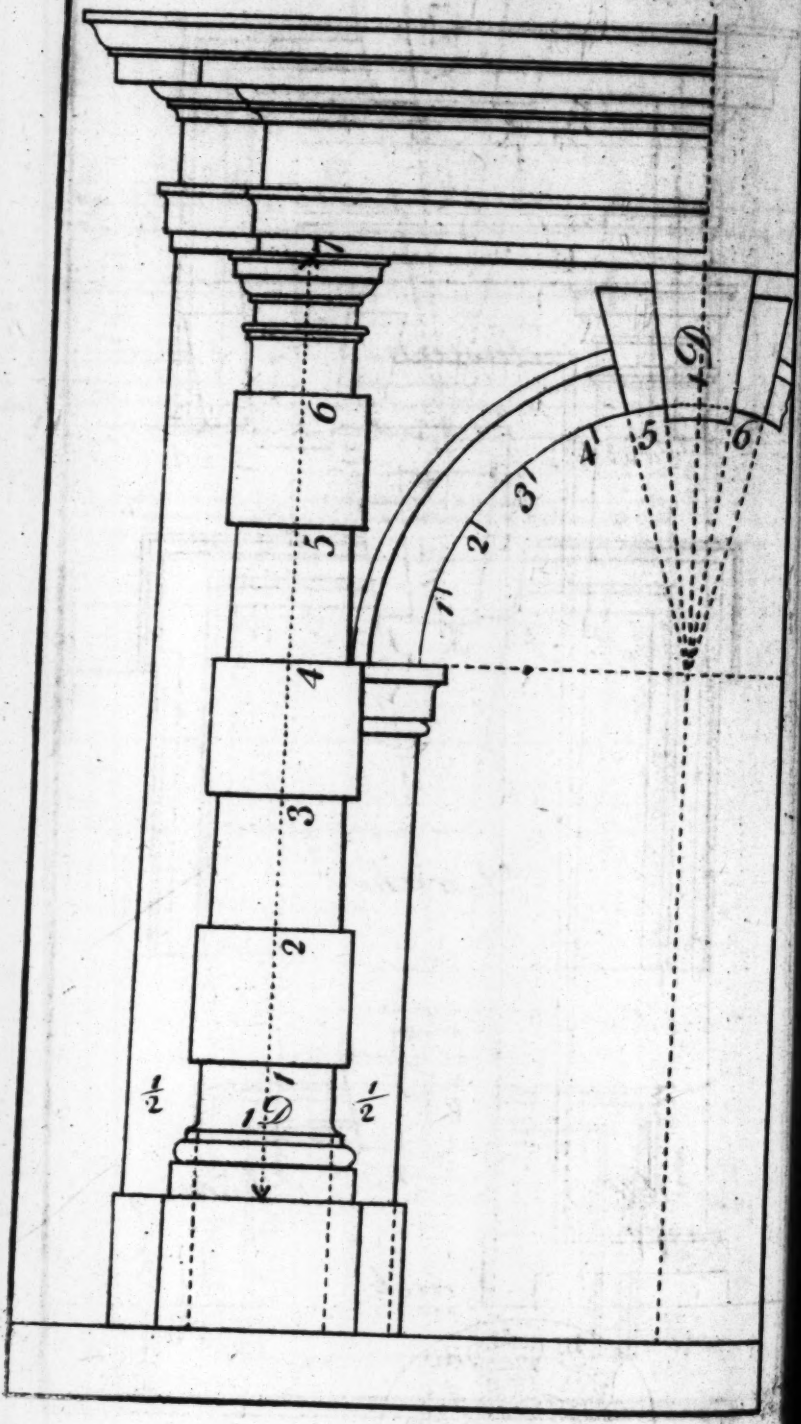
Key Stones to Windows &c.



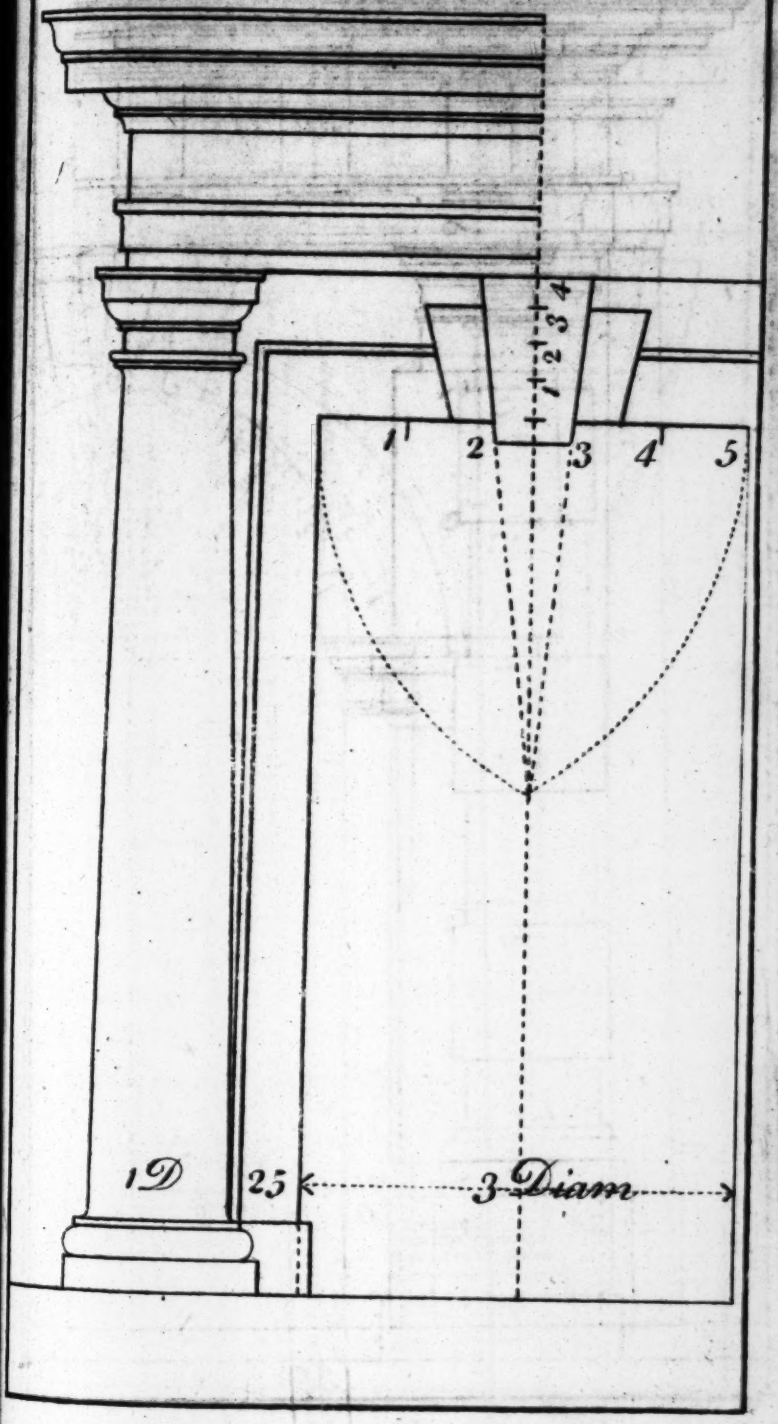




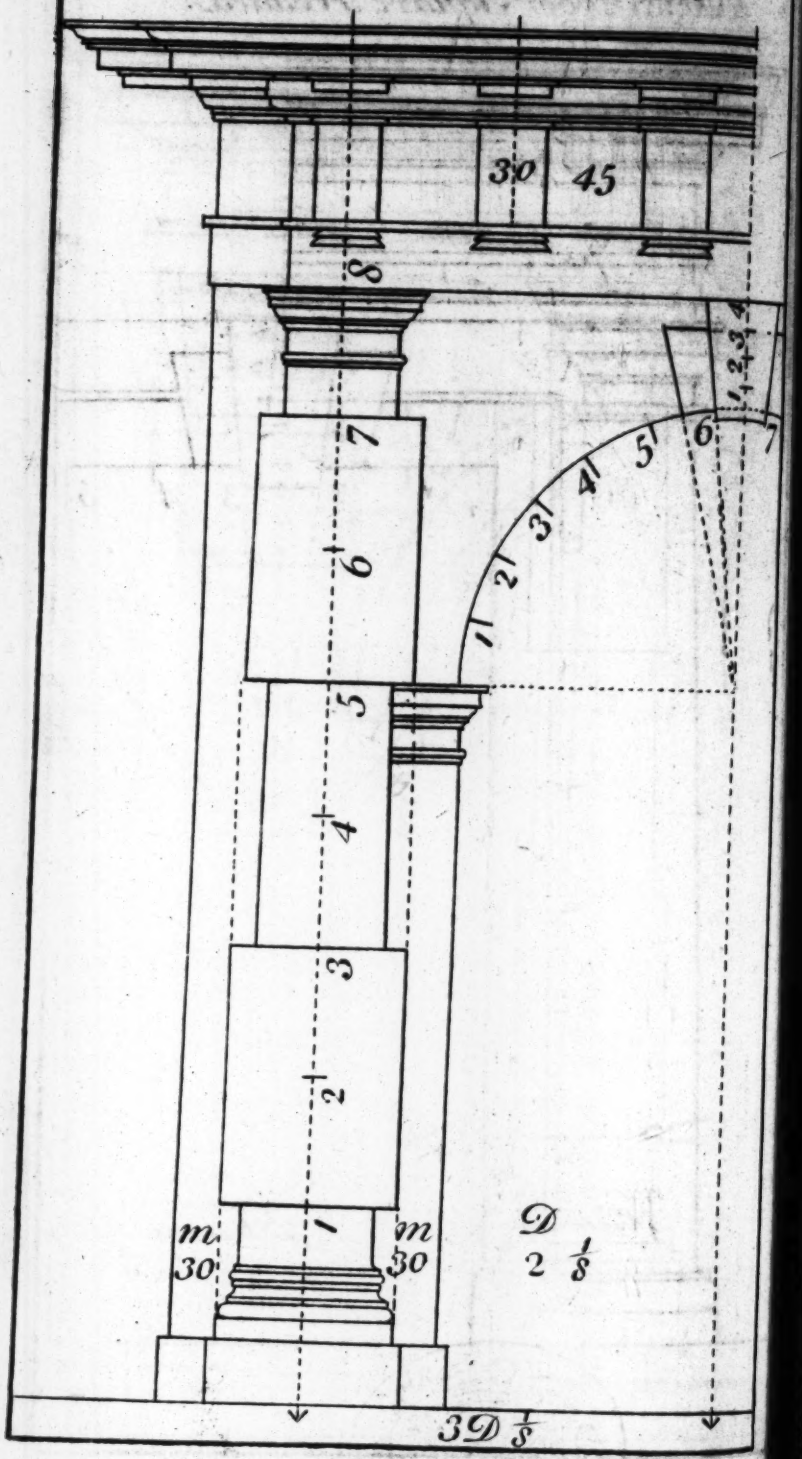
Tuſcan Door Circular Headed.



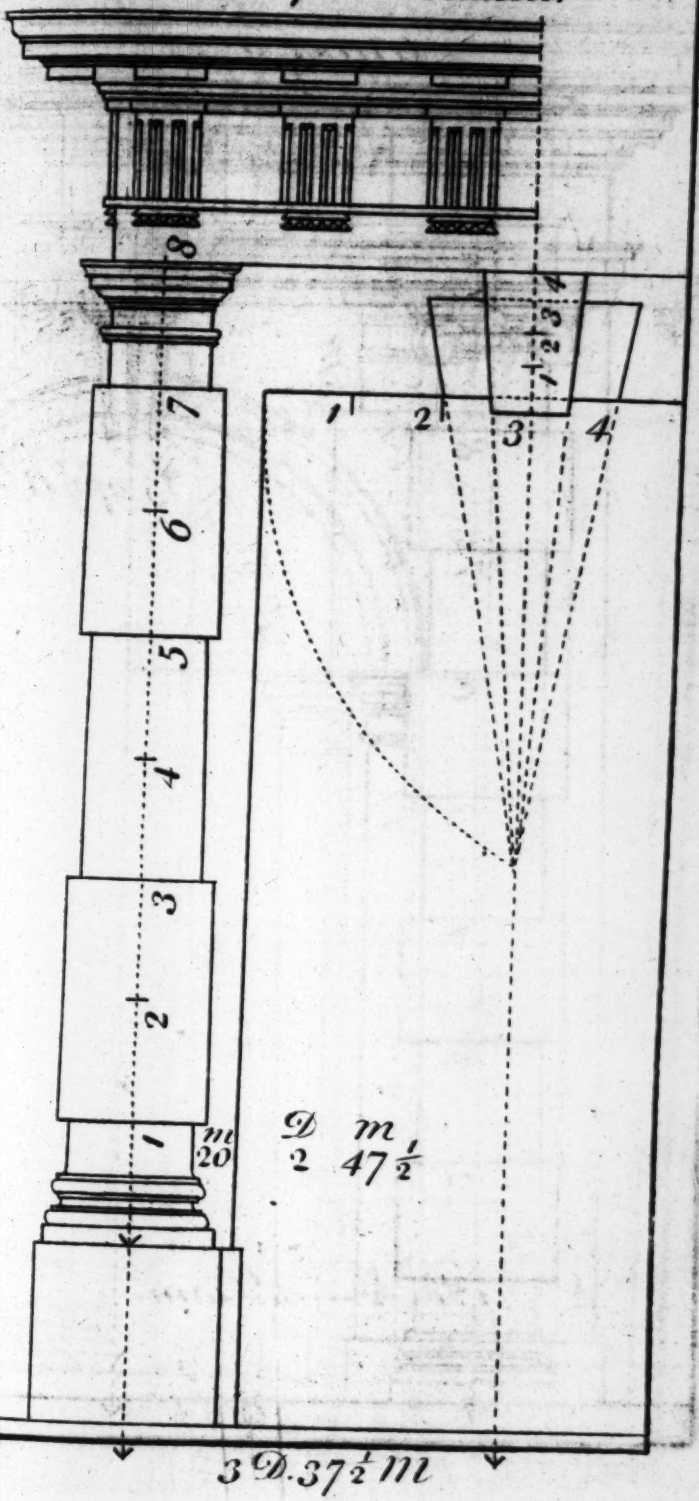
Tuſcan *Door Square Headed.*



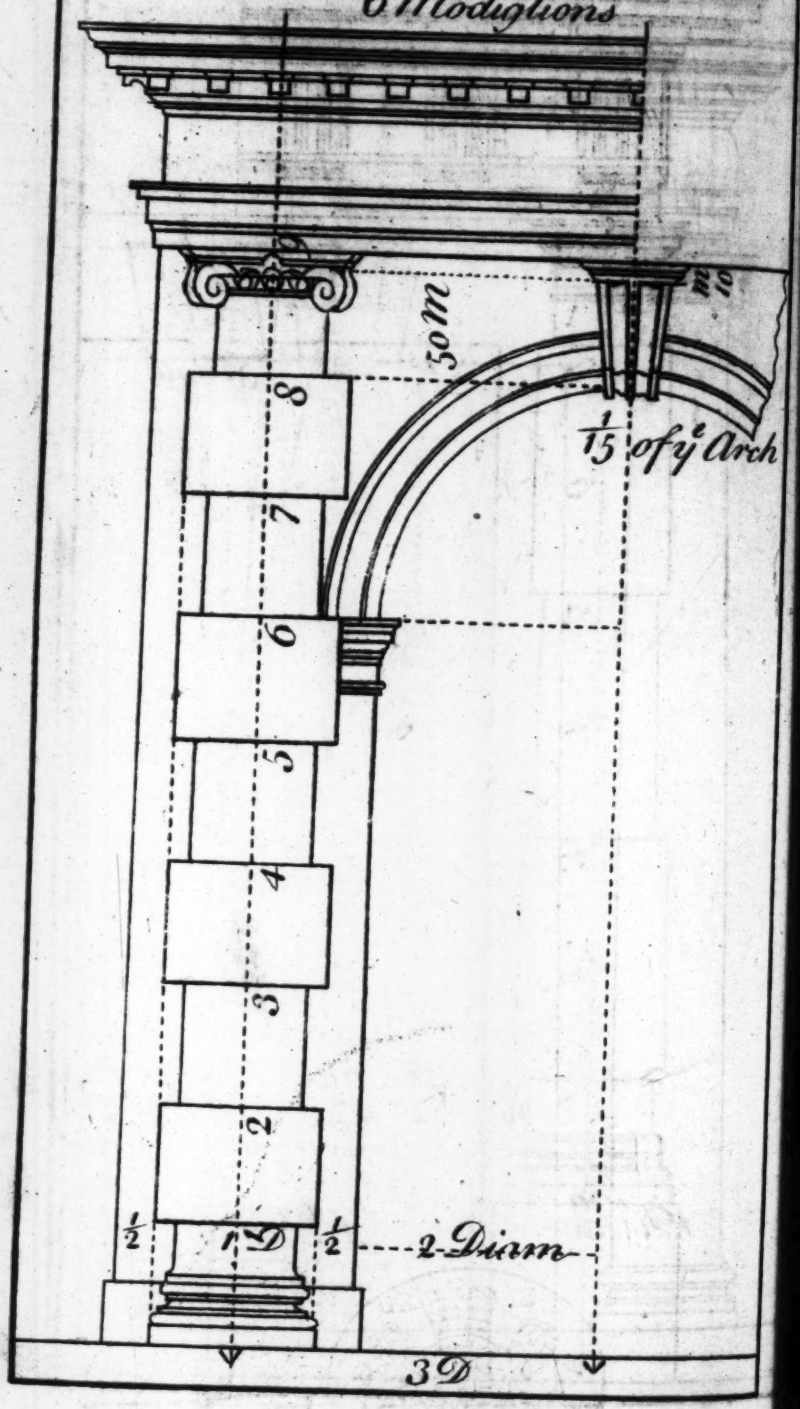
Dorick Door Circular Headed.



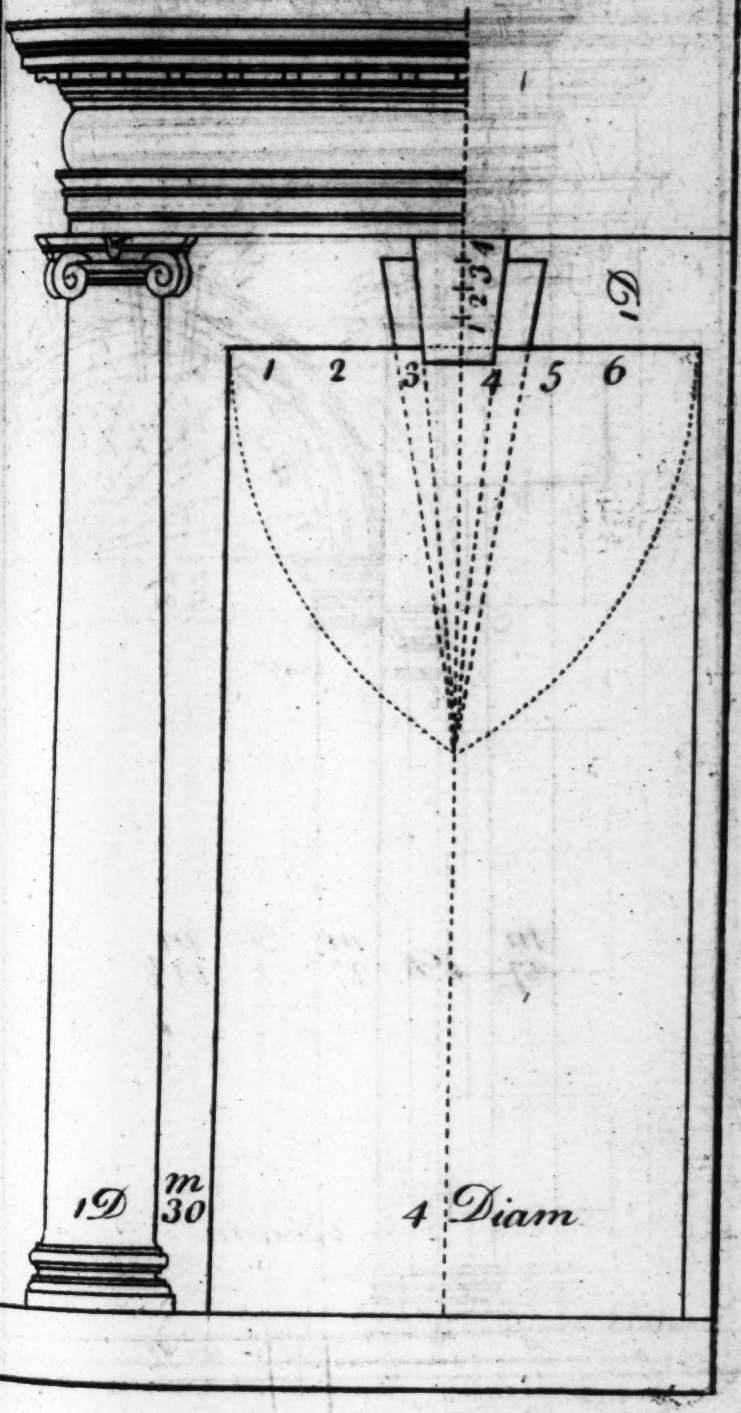
Dorick Door Square Headed.



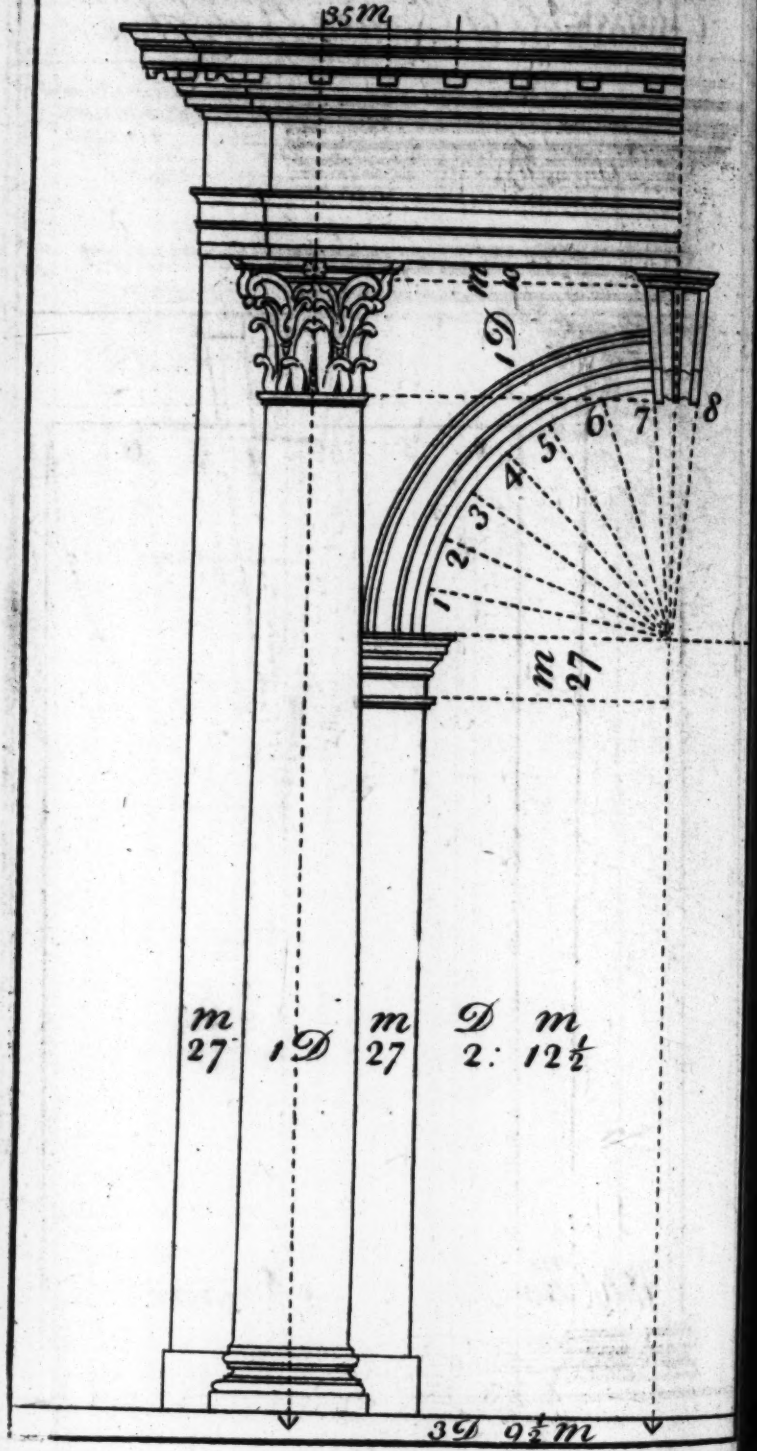
Ionick Door Circular Headed.



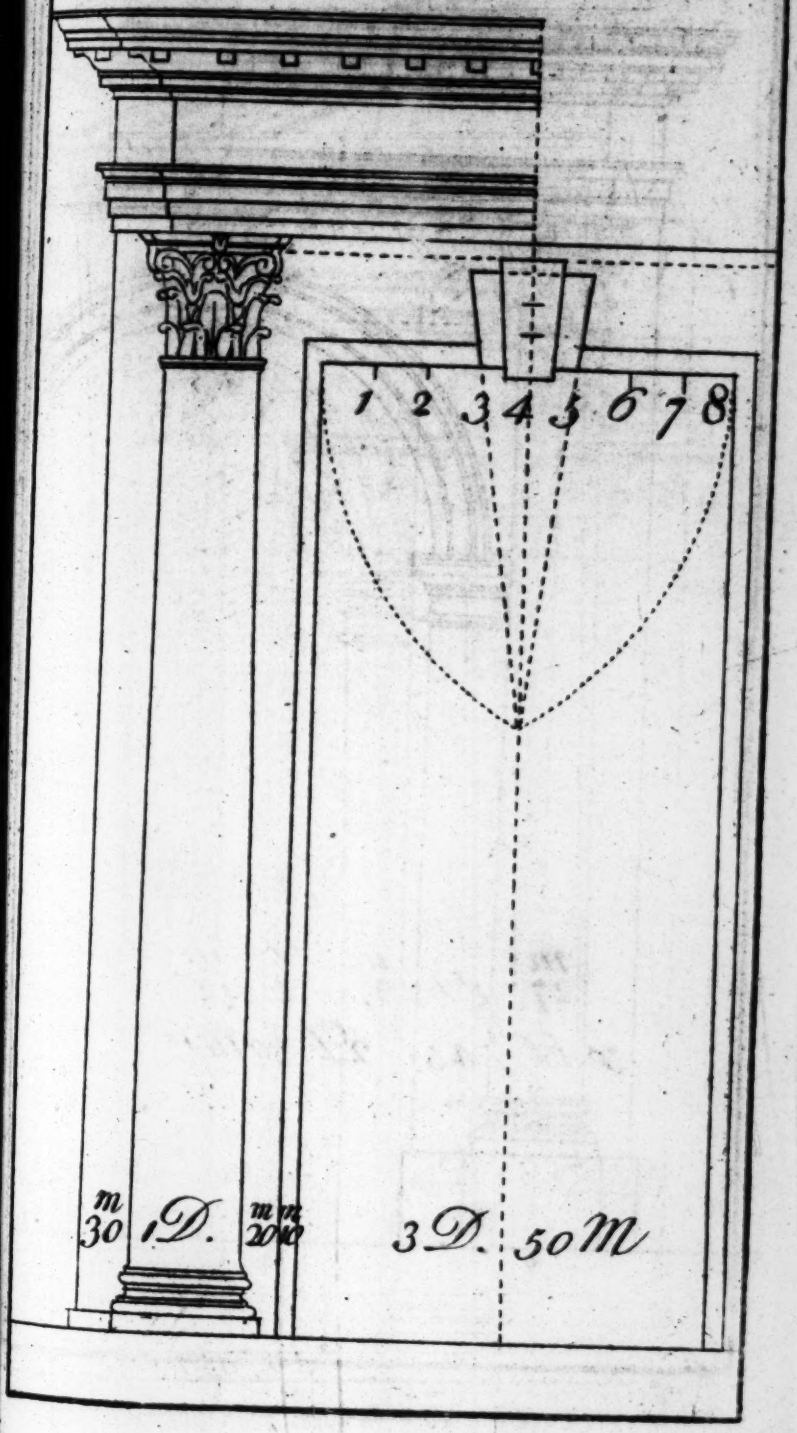
Ionick Door Square Headed.



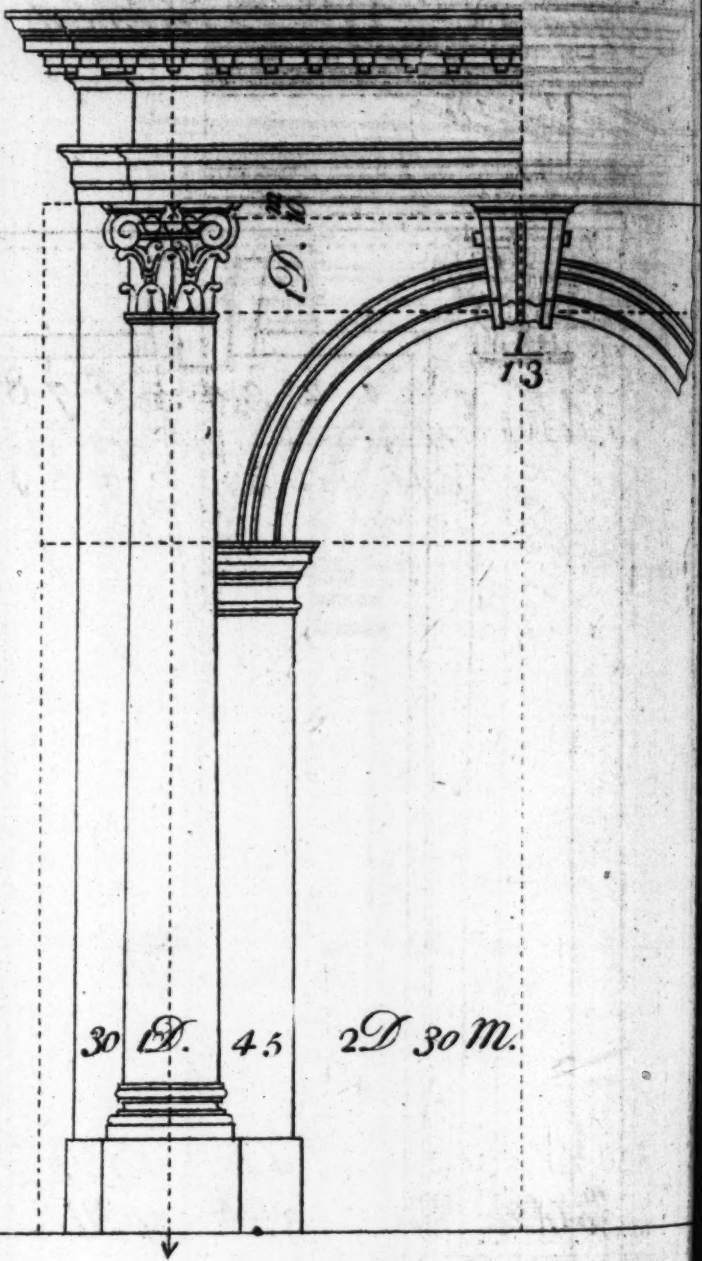
Corinthian Door Circular Headed.



Corinthian *Door: Square Headed*

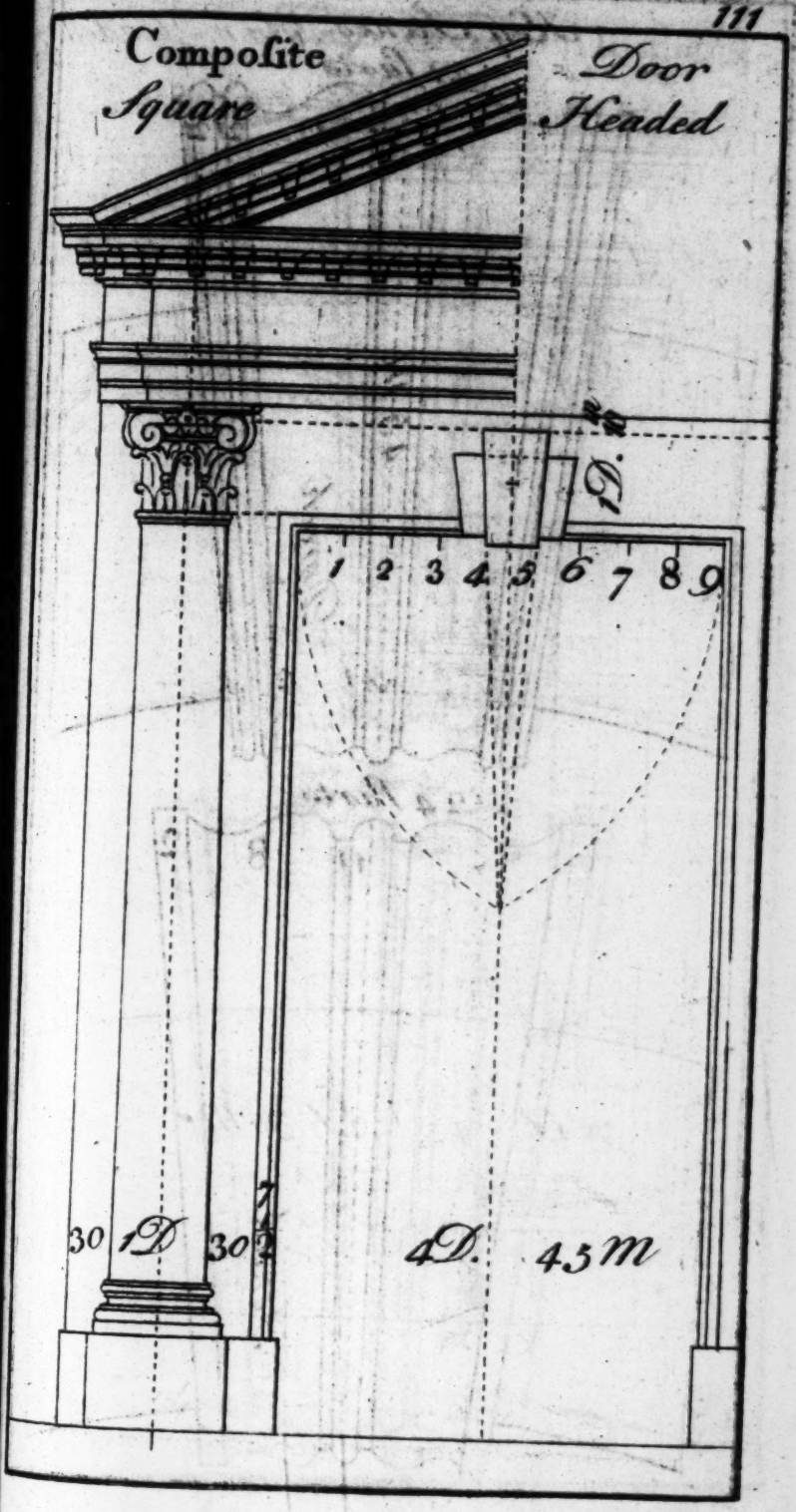


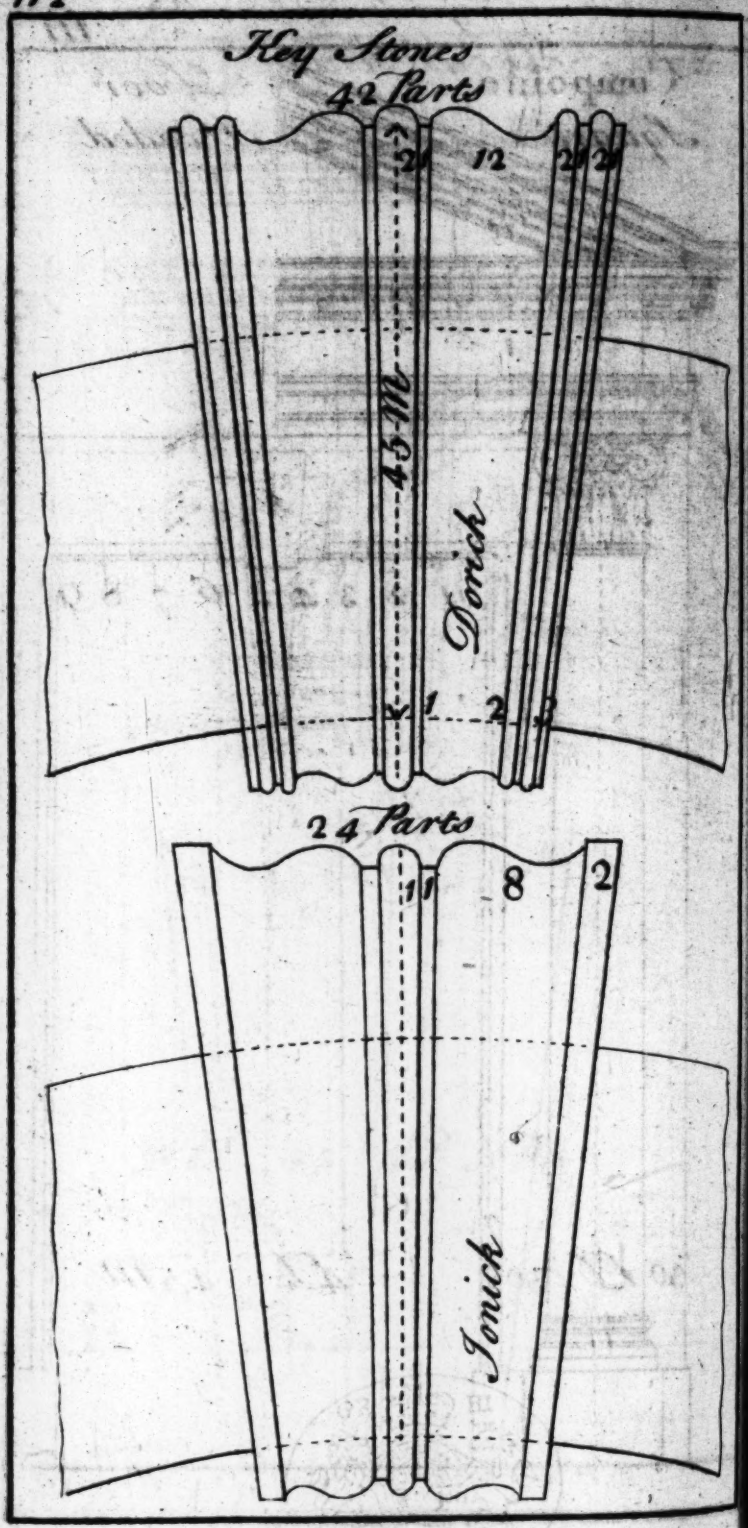
Compositе Door Circular Headed

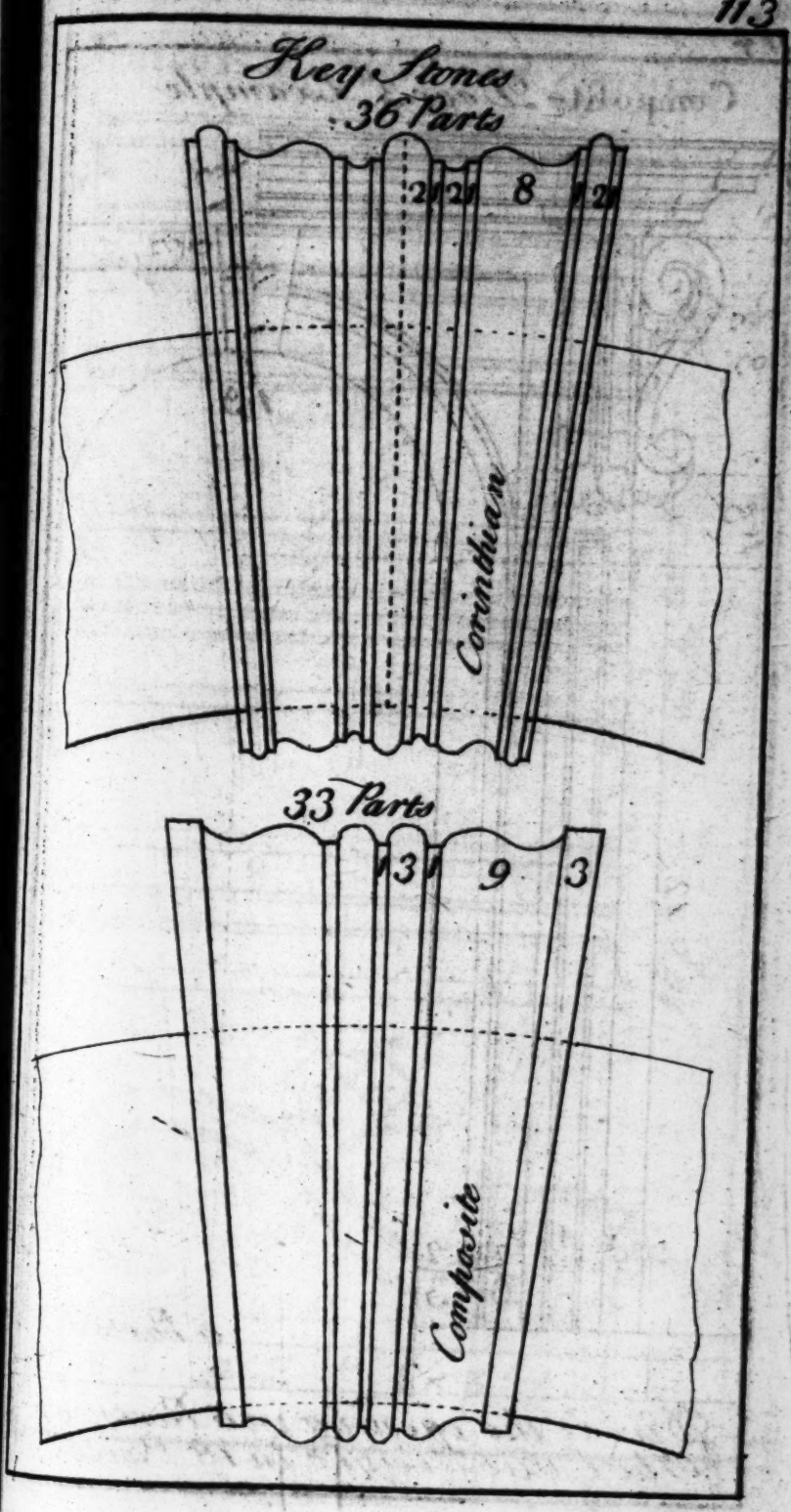


Compolite Square

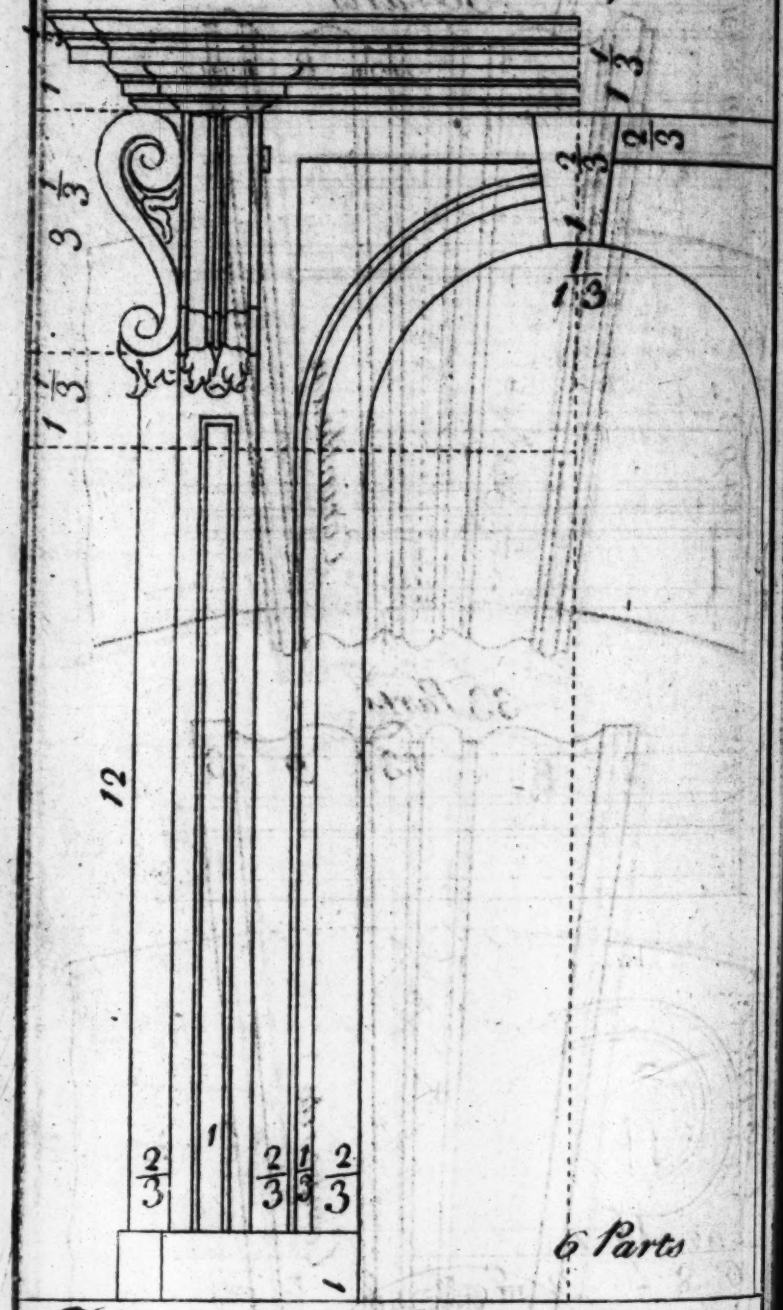
Door Headed




Key Stones
42 Parts
5
20
12
20
20
45 M
Dorick
1
2
3
24 Parts
1
8
2
Ionick


Key Stones
36 Parts
2
2½
8
2½
Corinthian
33 Parts
3
3
9
3
Composite

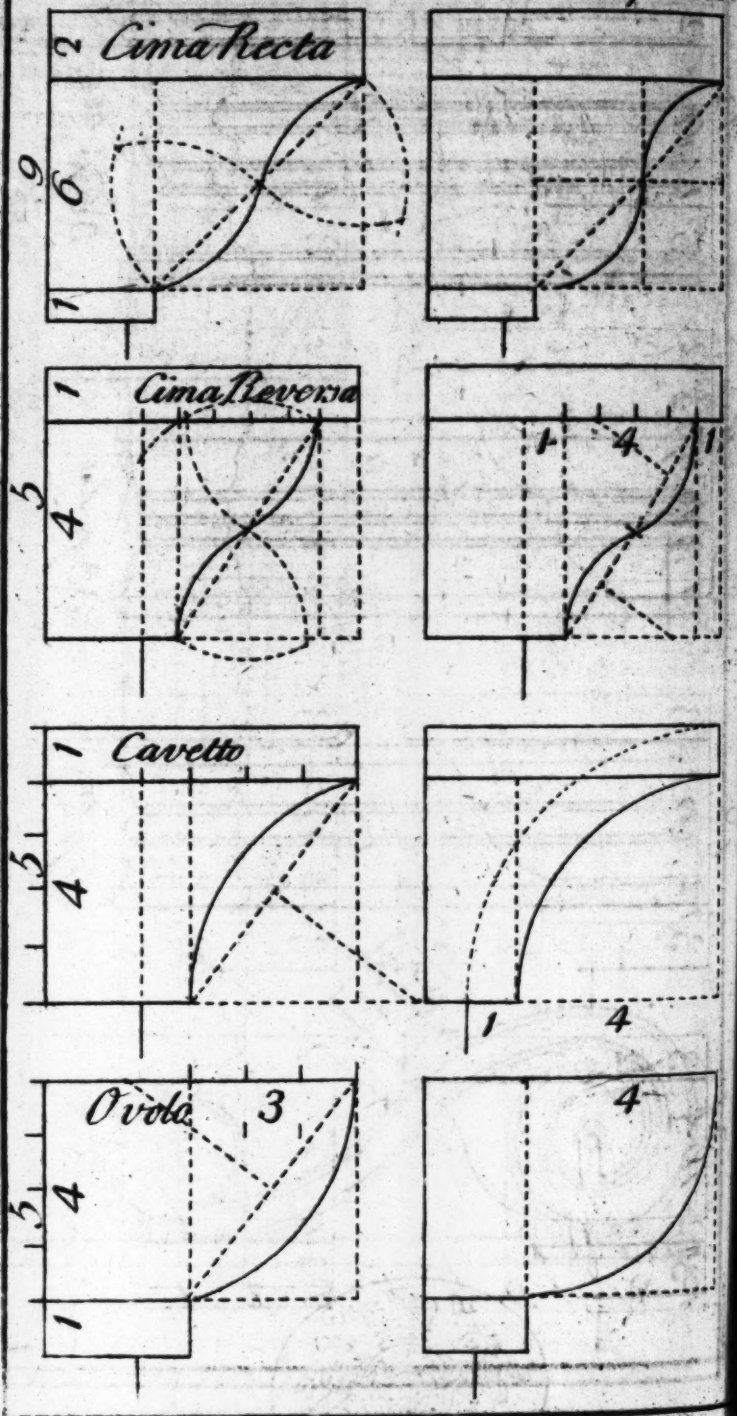
Composite Door. 3d Example



Divide the opening in 6 Parts, or The Entire Height in 18 Parts.

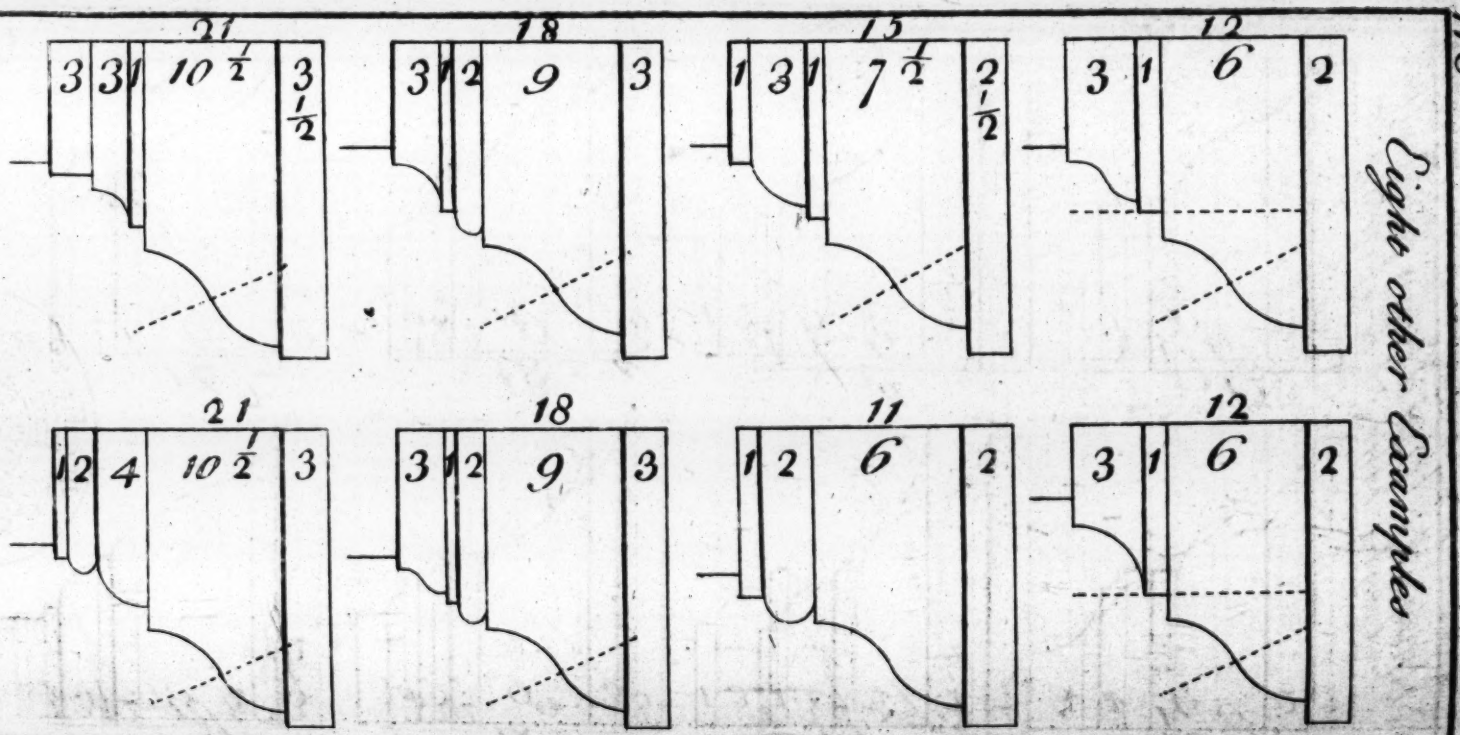
Truſses *in Front and Profile*

Tenia's or Bands for Architraves to Windows. Doors and Chimney Faces.



Compound Moldings for Ditto

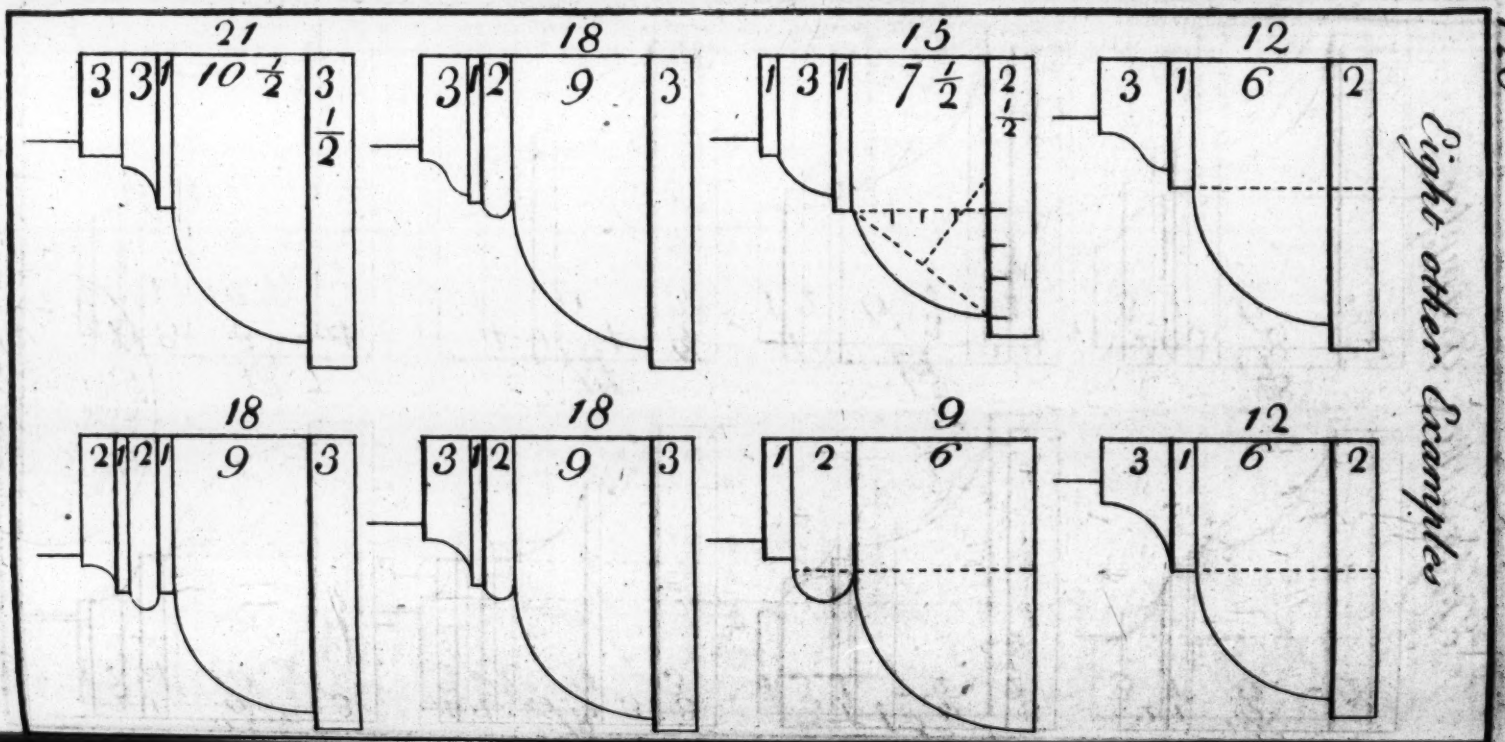
Eight other Examples

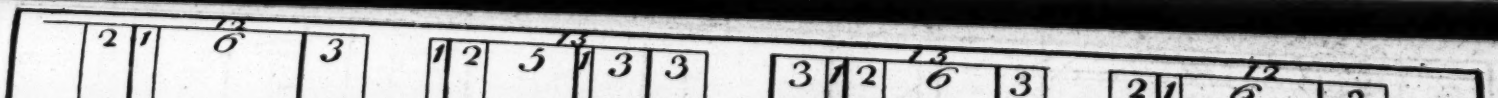


21
1 2 4 10 1/2 3
18
3 1 2 9 3
13
1 3 1 7 1/2 2 1/2
12
3 1 6 2

Eight other Excamples

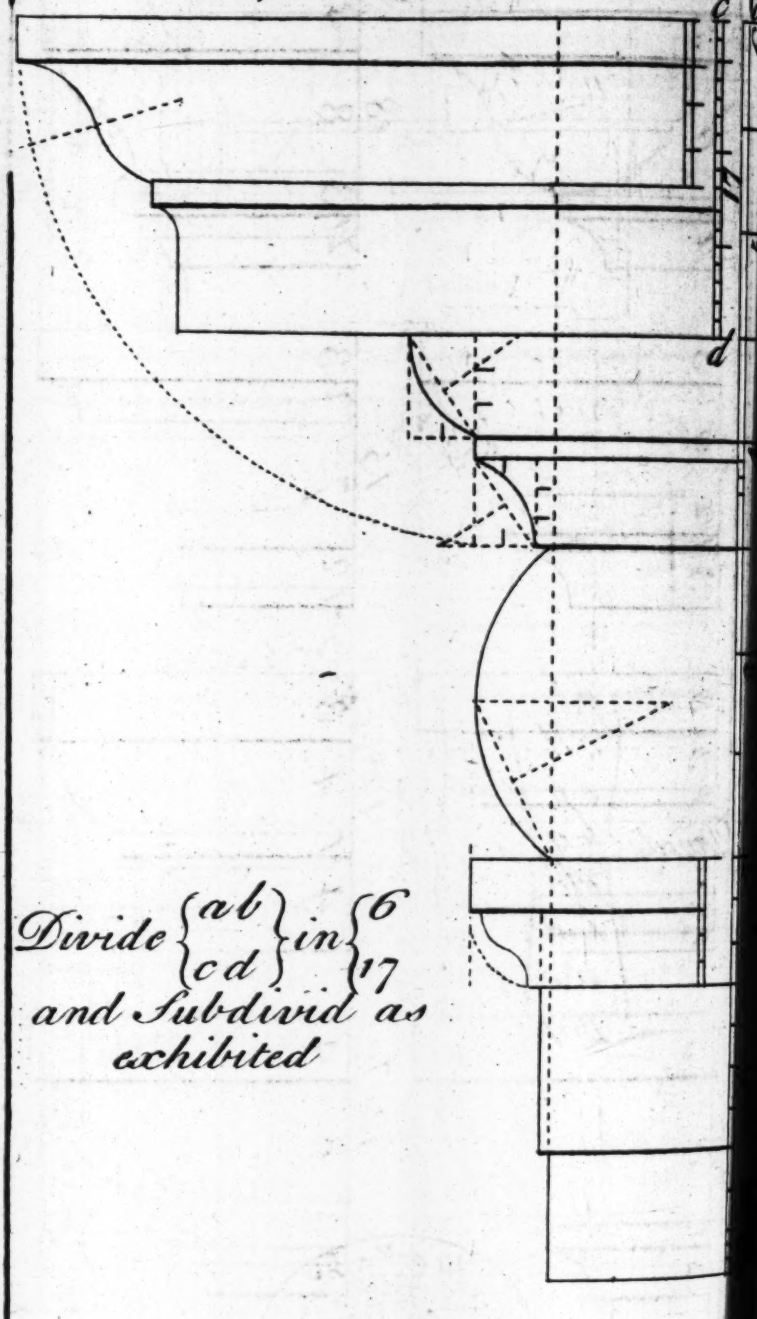
Eight other Examples





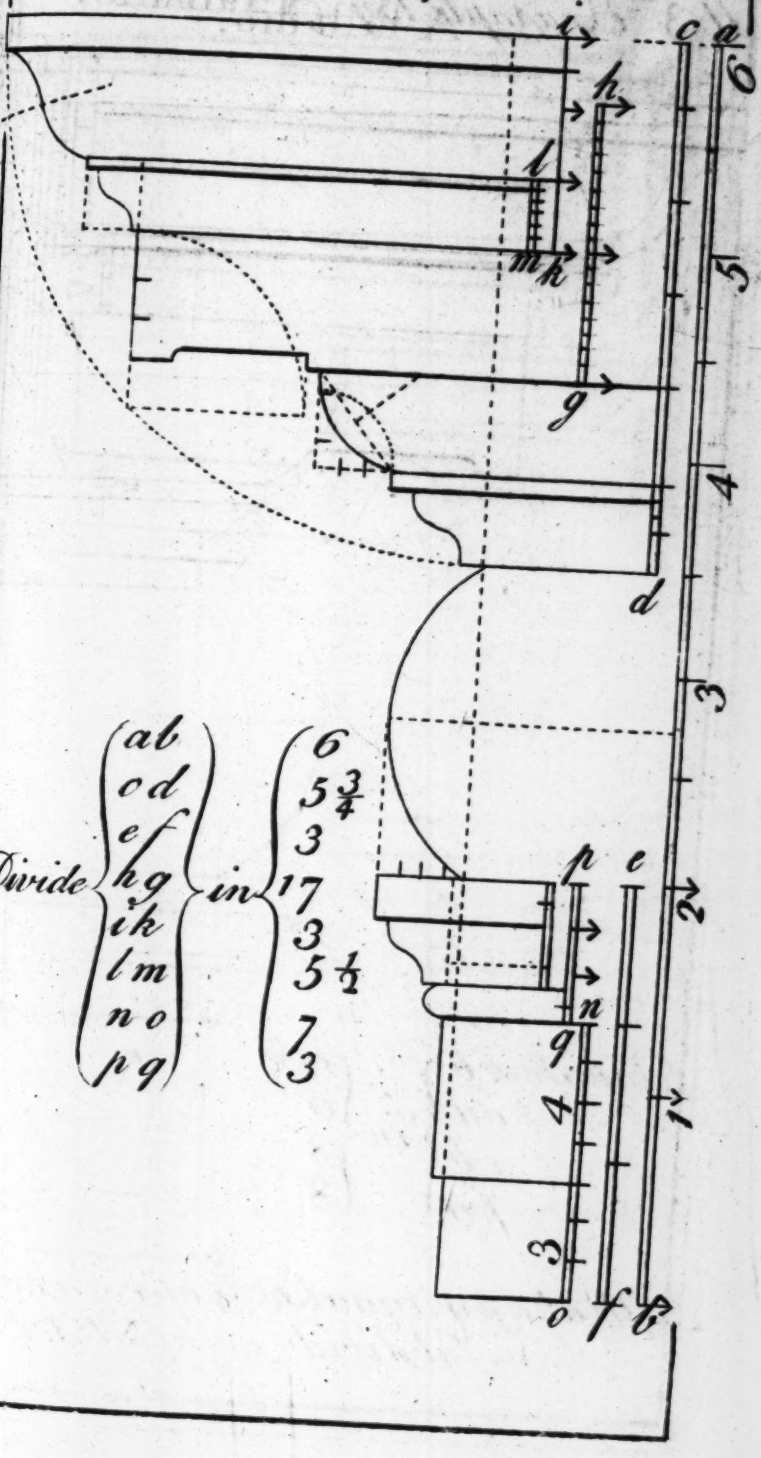
Eight other Examples

An Entablature for a Door or Window
By A. Palladio.



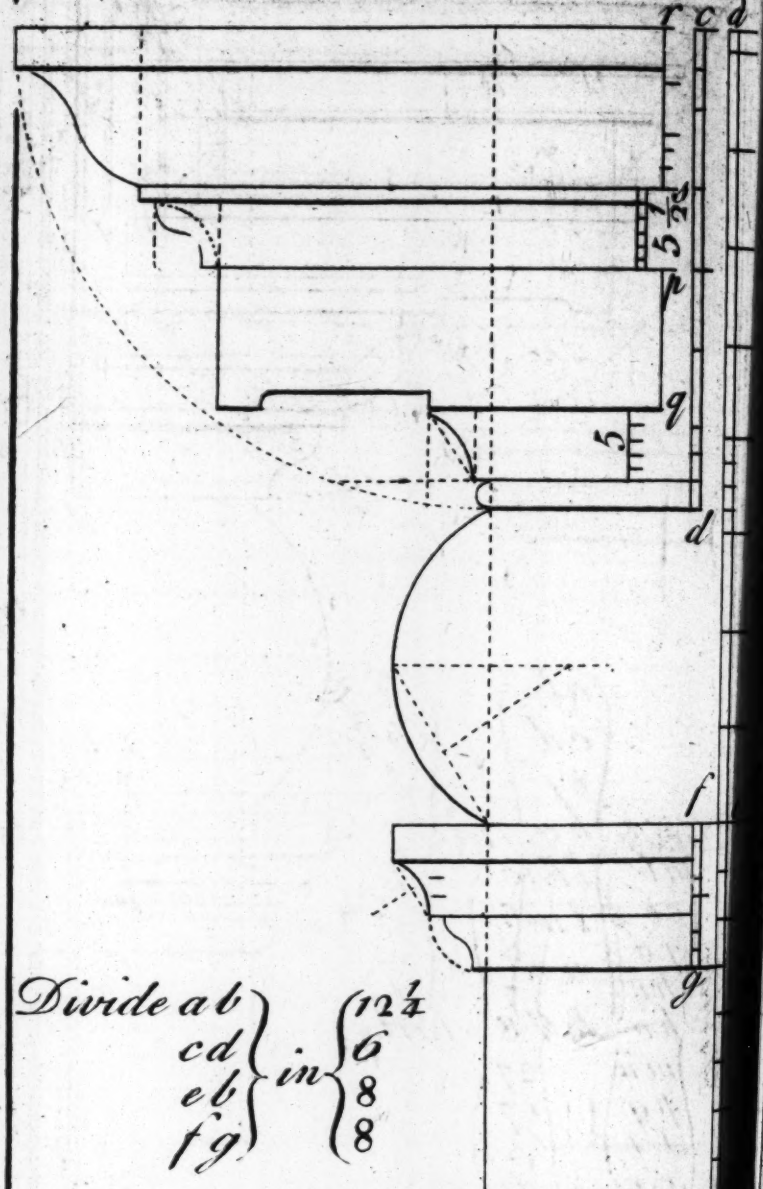
Divide $\left\{\begin{matrix} ab \\ cd \end{matrix}\right\}$ in $\left\{\begin{matrix} 6 \\ 17 \end{matrix}\right\}$ and Subdivid as exhibited

A 2d Example By A Palladio.



Divide { ab, od, e f, h g, i k, l m, n o, p q } in { 6, 5 3/4, 3, 17, 3, 5 1/2, 7, 3 }

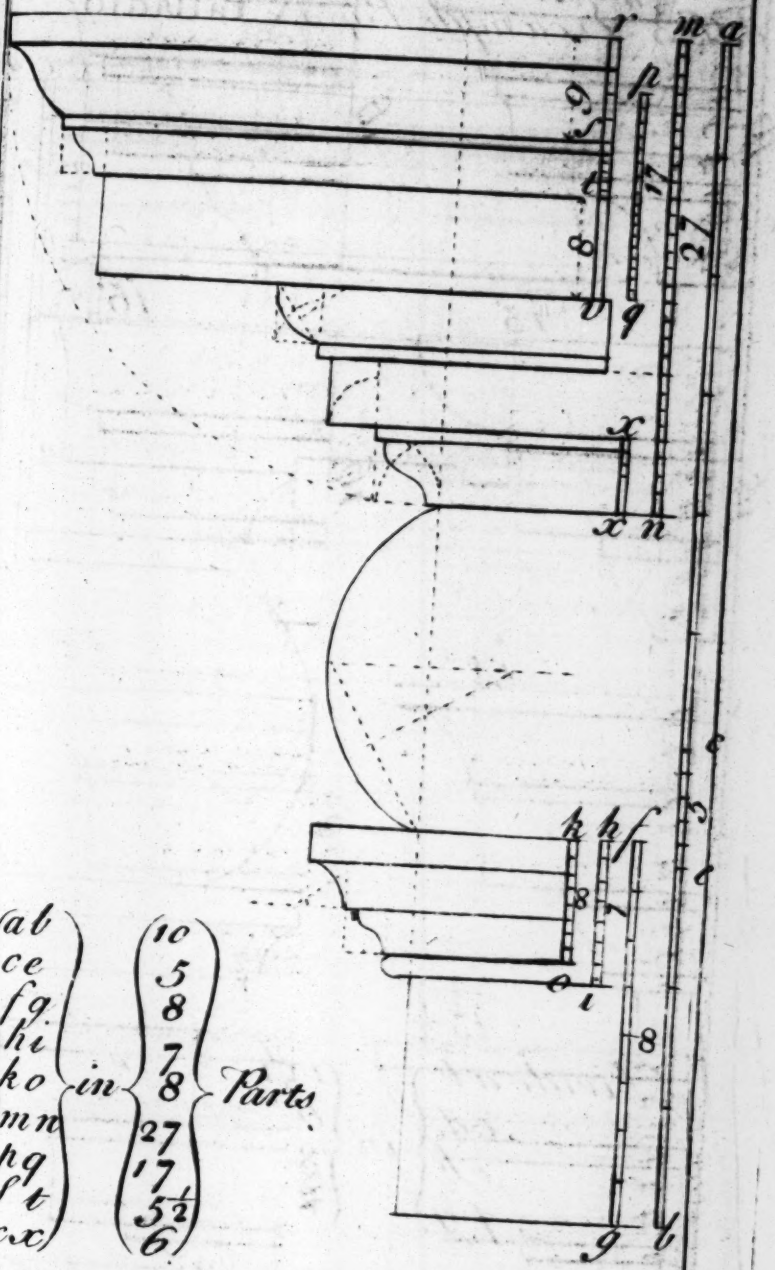
A 3^d Example By A. Palladio.



Divide a b, c d, e b, f g } in { 12 1/4, 6, 8, 8

Make p q. equal to $\frac{8}{9}$ of r s, and then Subdivide as exhibited

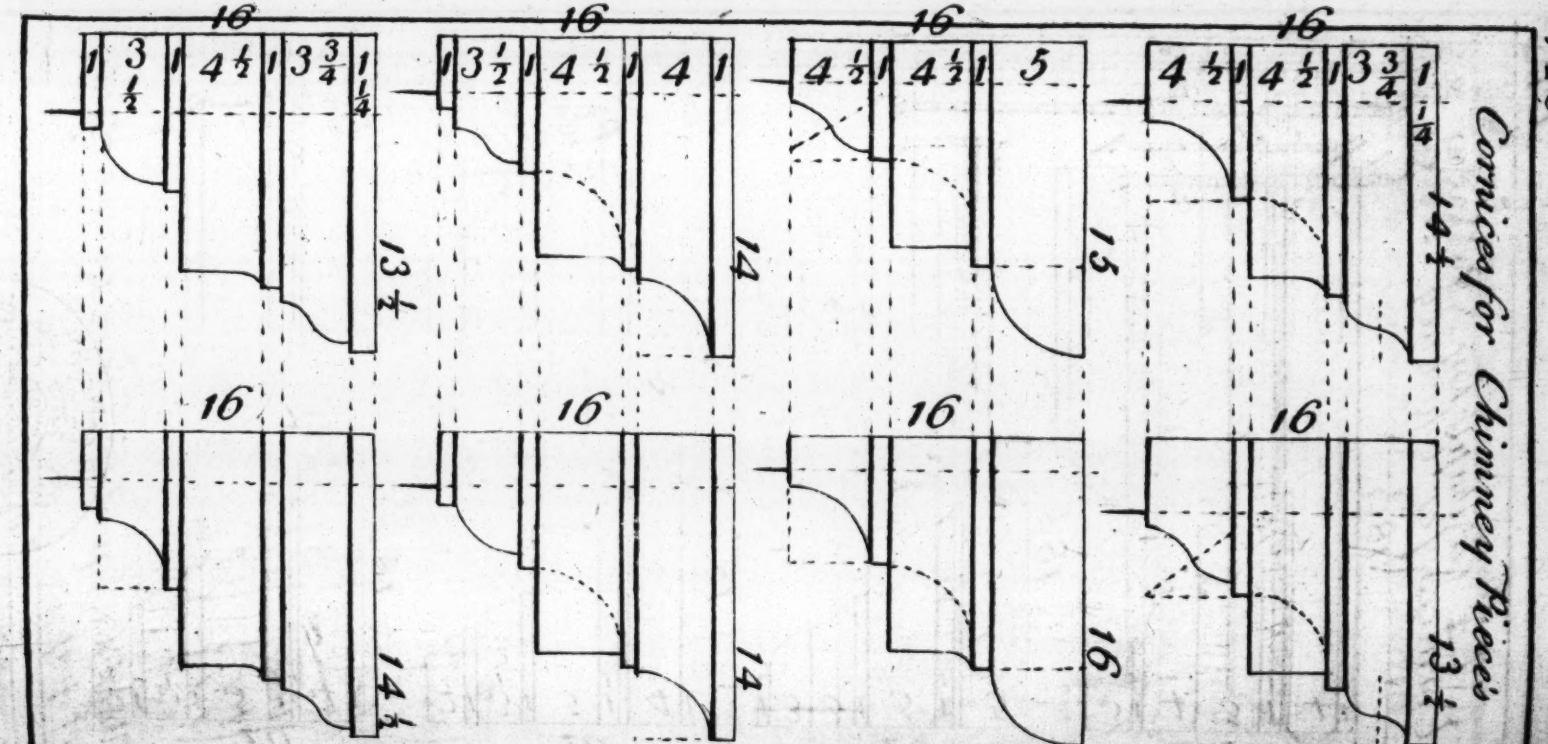
A 4th Example By A Palladio

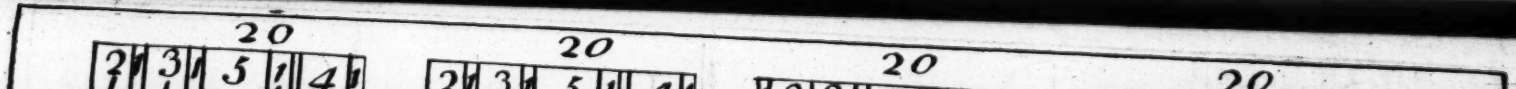


Divide { ab, ce, fg, hi, ko, mn, pq, st, xx } in { 10, 5, 8, 7, 8, 27, 17, 5½, 6 } Parts.

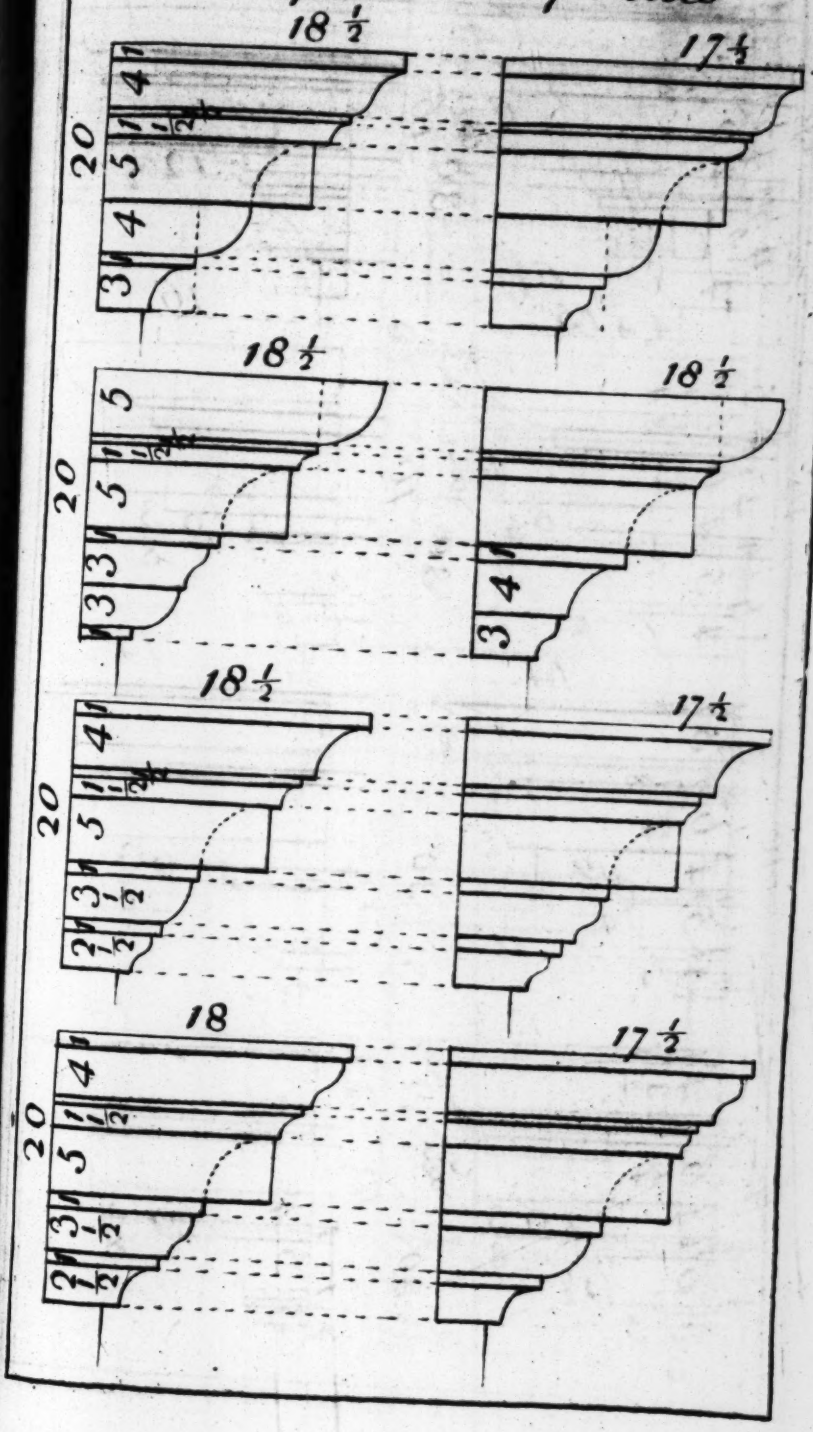
Make r s. equal to 9. and t v. to 8. parts of p q

Cornices for Chimney Pieces

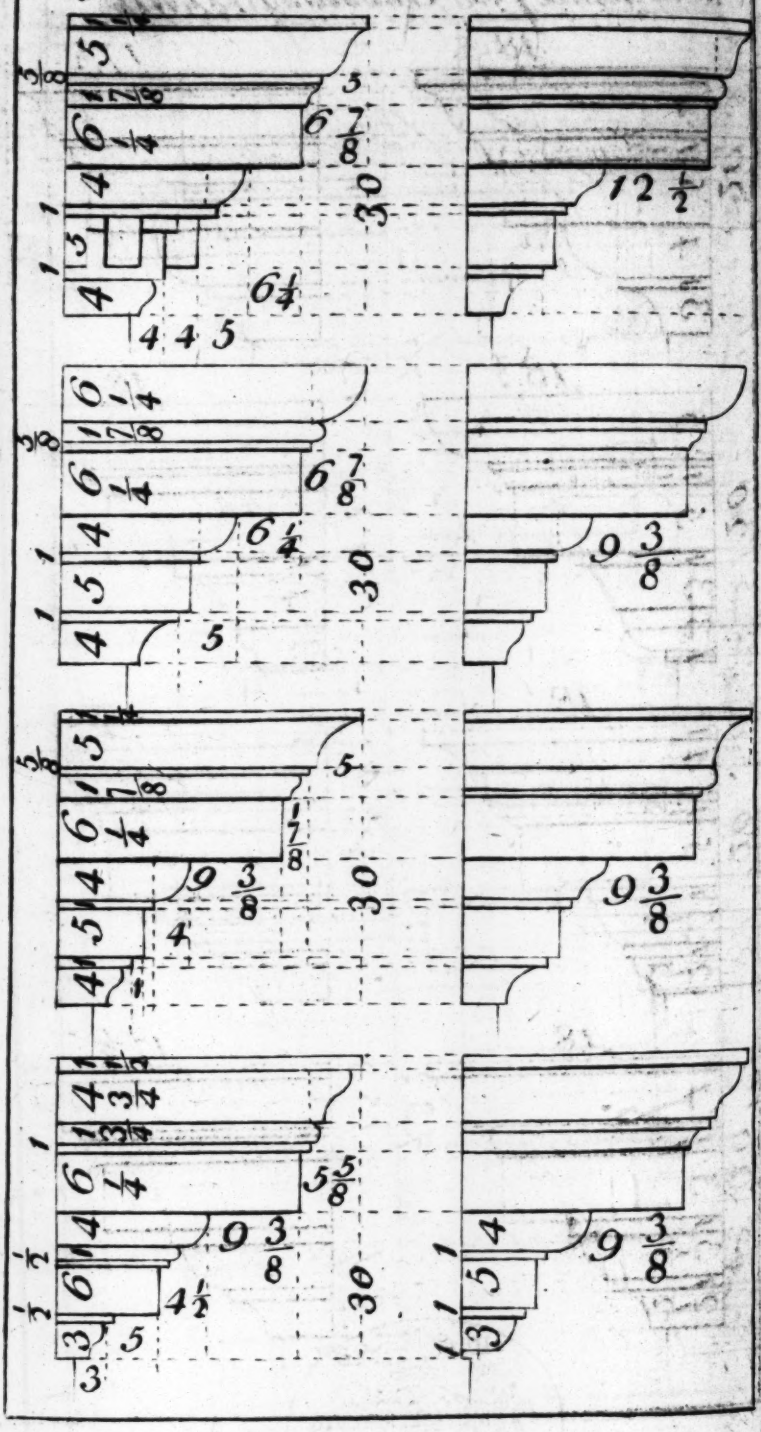




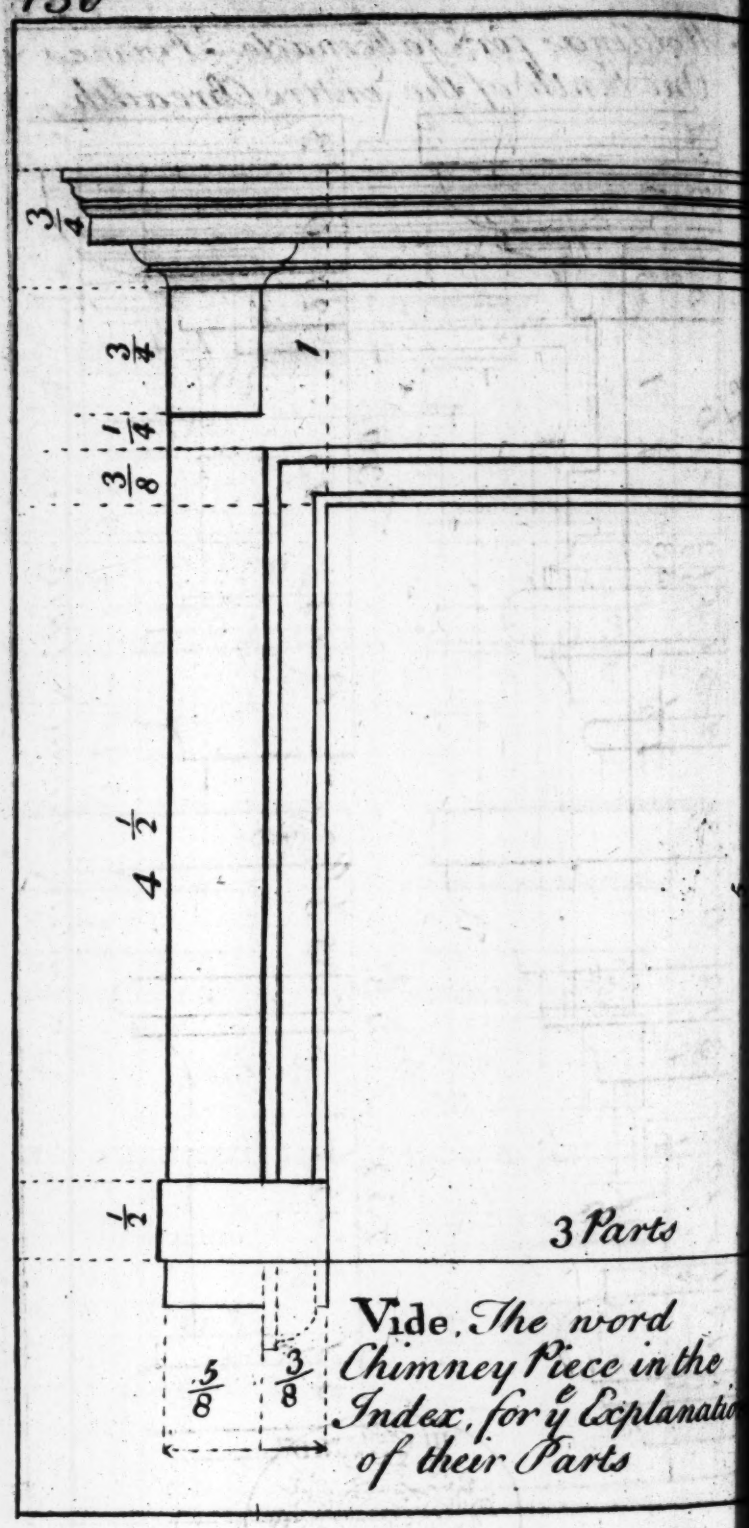
Cornices for Chimney Piece's



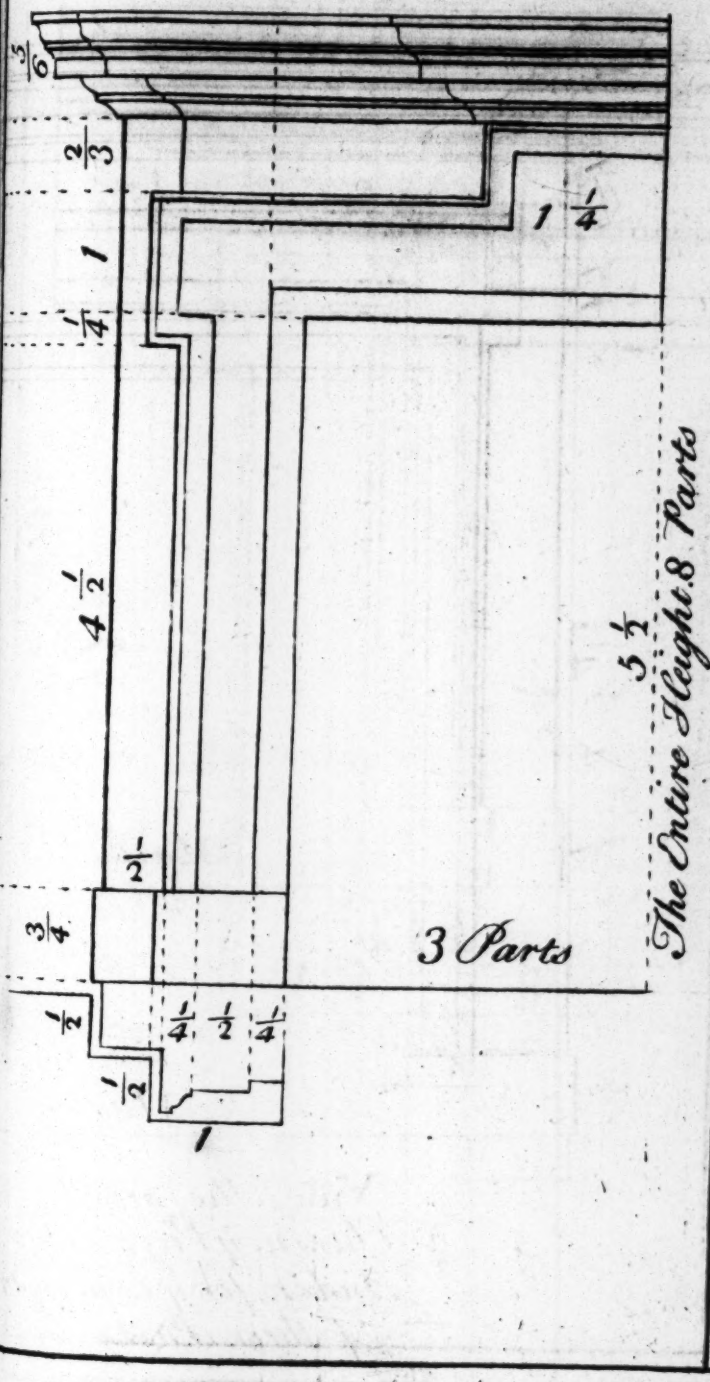
Eight Cornices for Chim. Pieces.

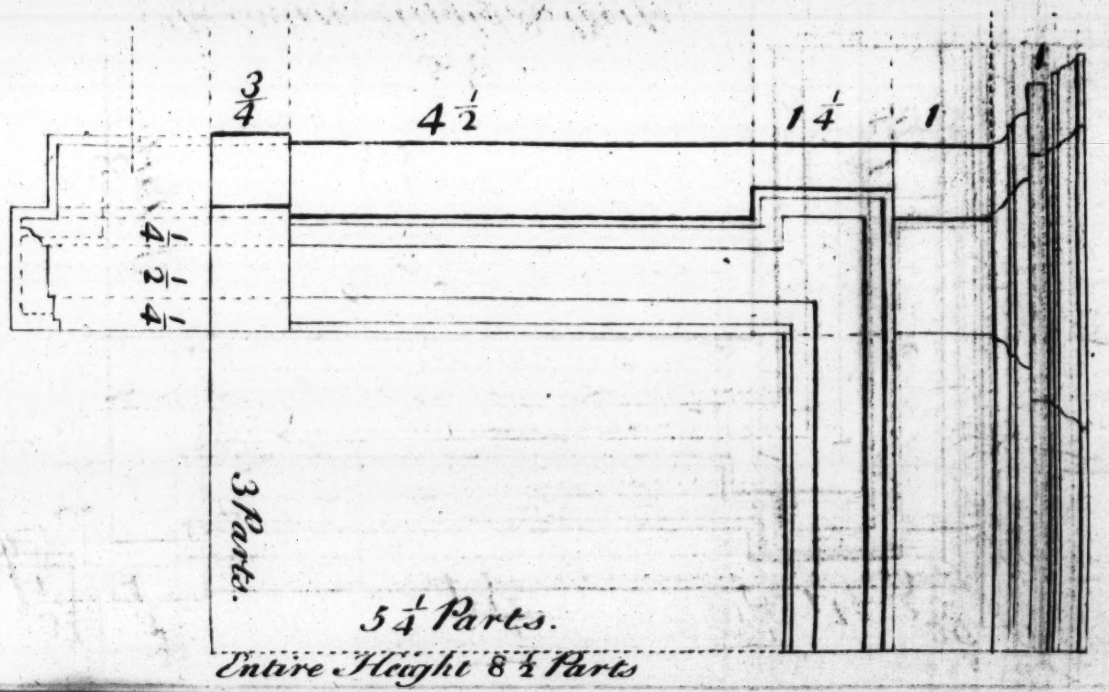


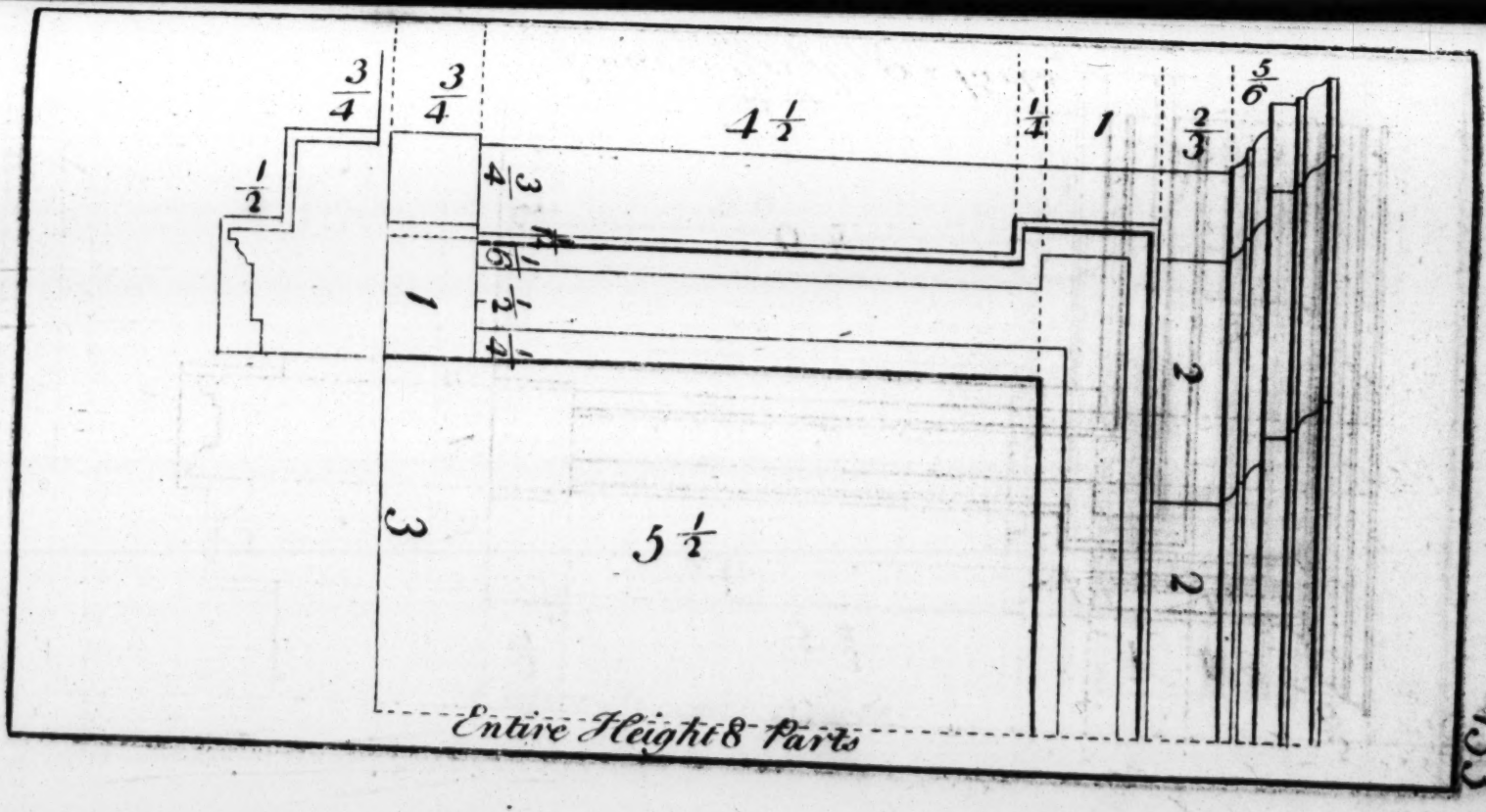
Moldings for Tabernade Frames One tenth of the entire Breadth

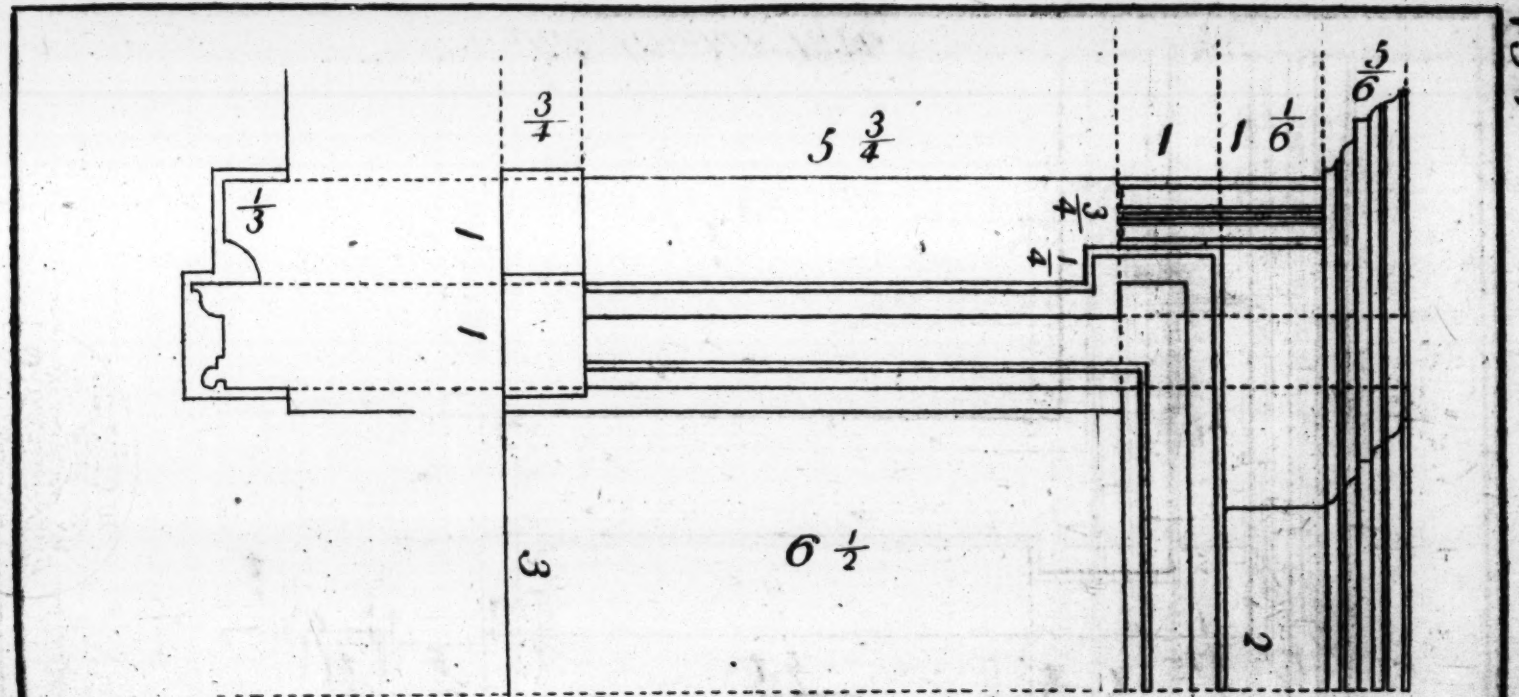


Vide. The word Chimney Piece in the Index, for ye Explanation of their Parts

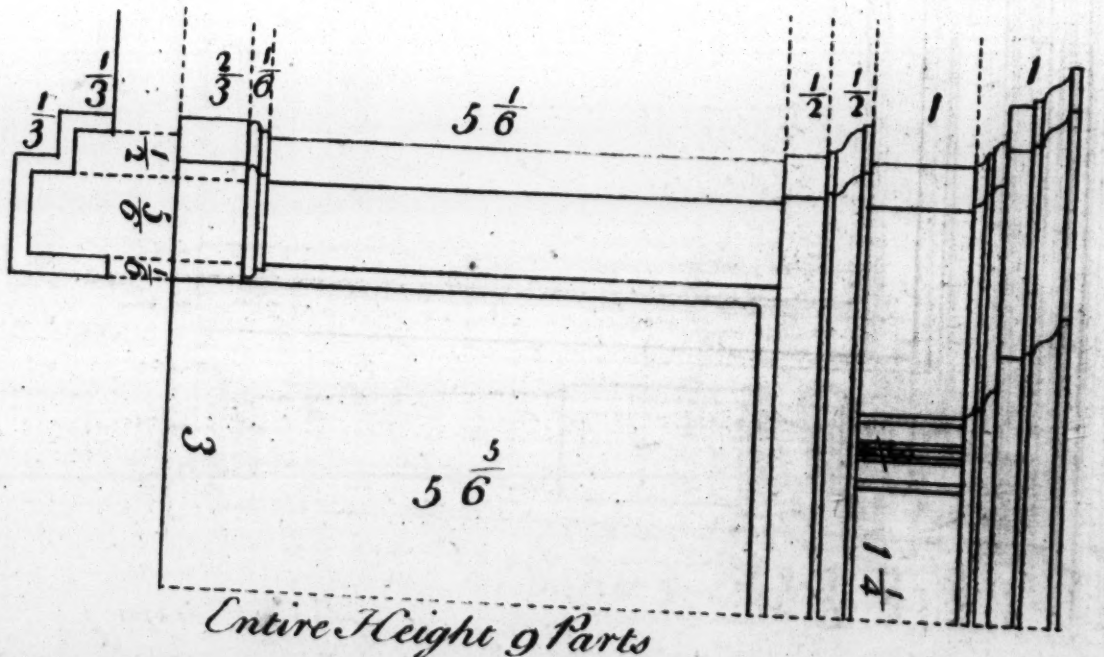

3/6
2/3
1
1/4
4 1/2
1/2
3/4
1/2
1/2
1/4
1/2
1/4
1
1 1/4
5 1/2
The Entire Height 8 Parts
3 Parts


3/4
4 1/2
1 1/4
1
1
1/4
1/2
1/4
3 Parts.
5 1/4 Parts.
Entire Height 8 1/2 Parts

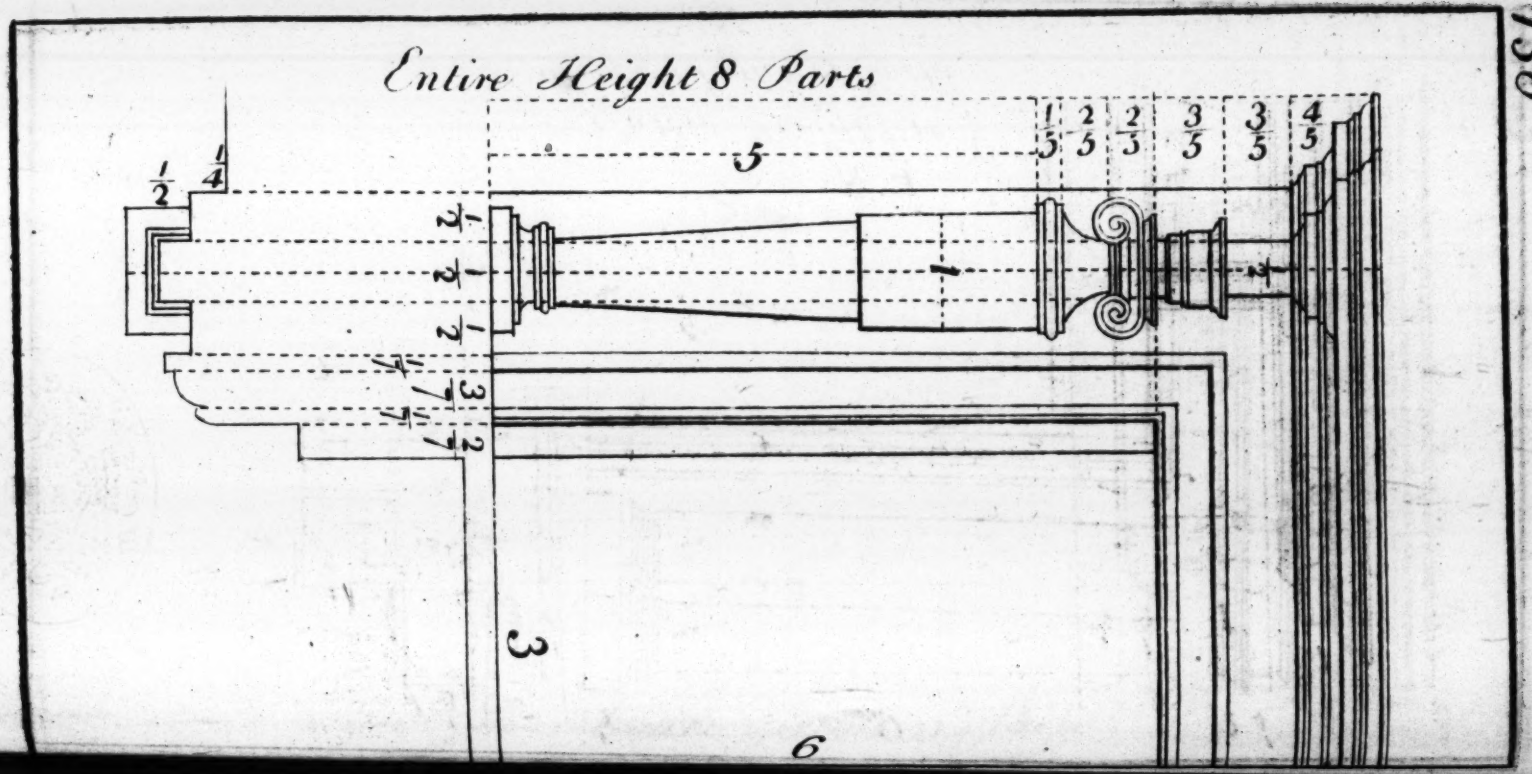

3/4
3/4
4 1/2
1/4
1
2/3
5/6
1/2
3/4
1/4
5/6
1/2
1/4
1
2
3
5 1/2
2
Entire Height 8 Parts

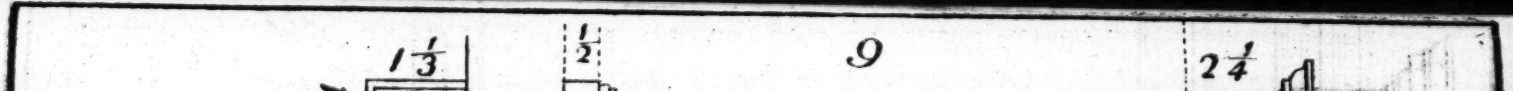

3/4
5 3/4
1
1 1/6
5/6
1/3
1
3/4
1/4
1
3
6 1/2
2
Entire Height 9 1/2 Parts

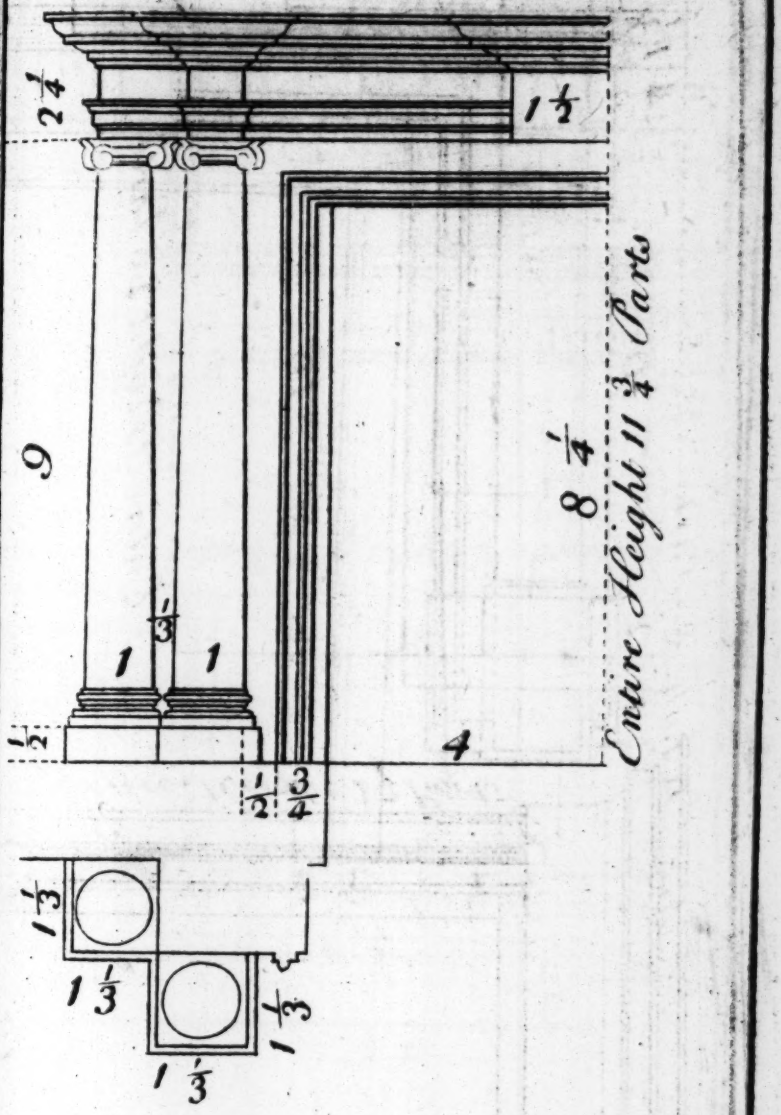
Entire Height 9½ Parts

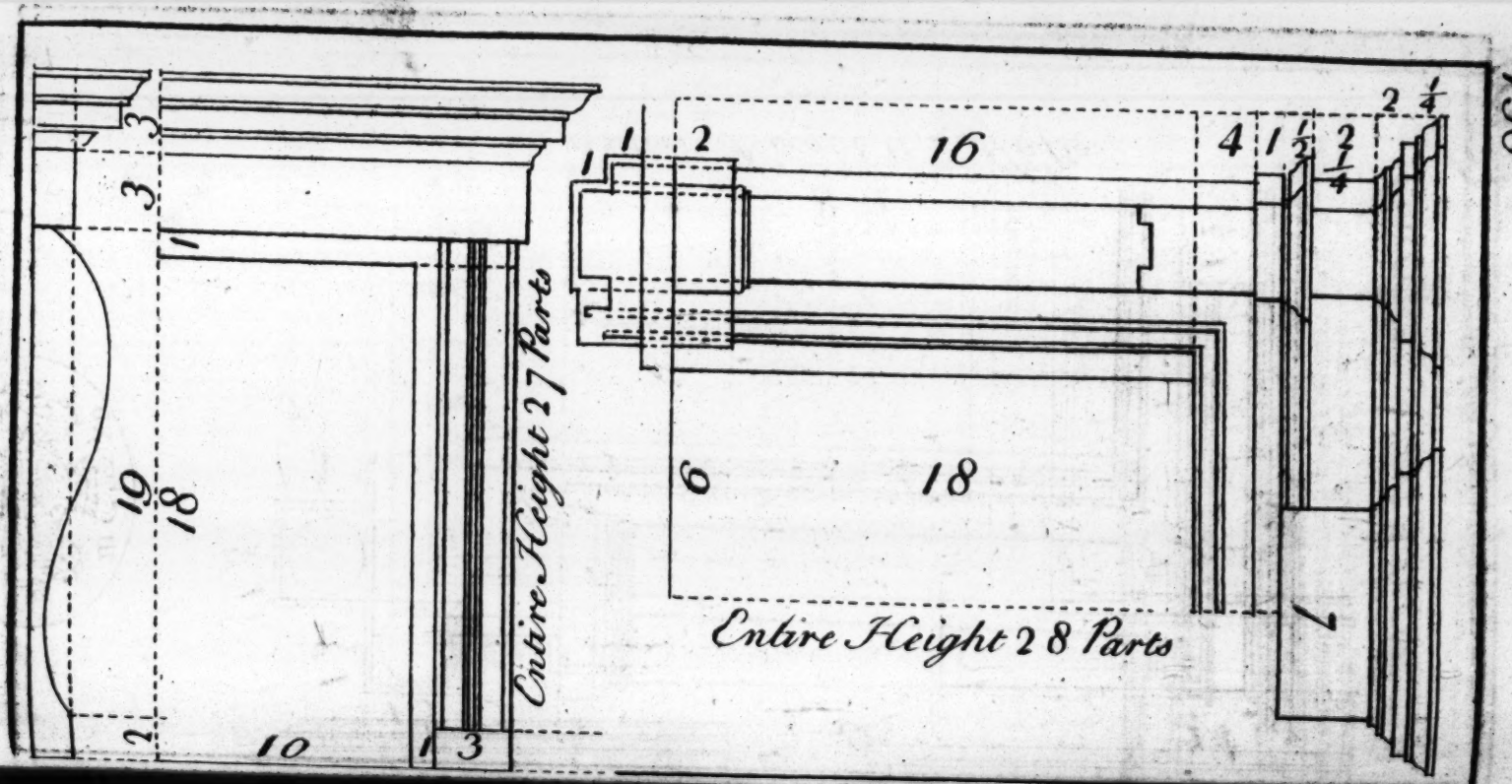


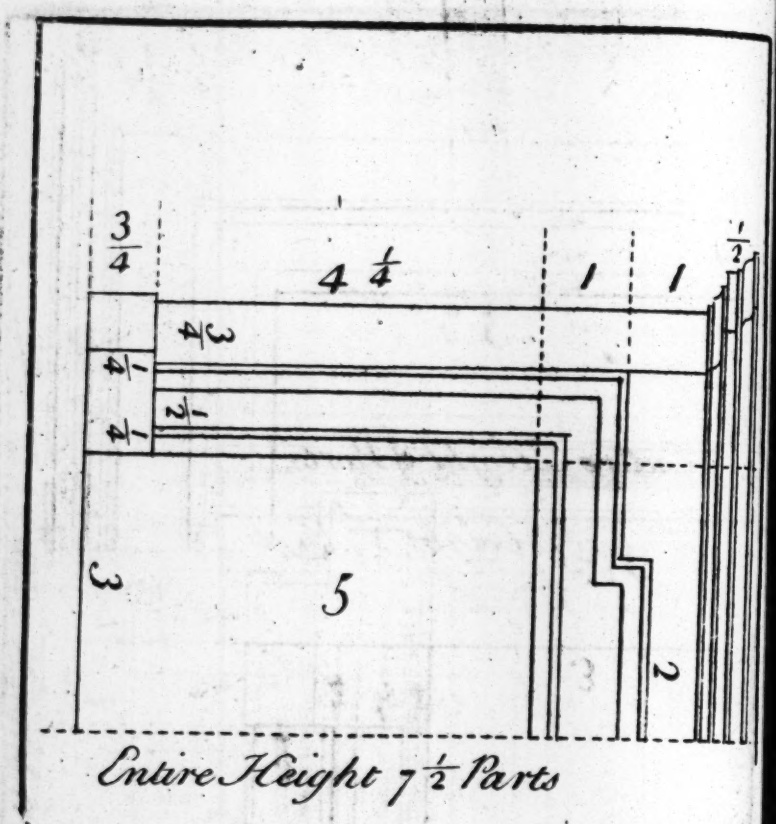
Entire Height 9 Parts


Entire Height 8 Parts
5
1/5 2/5 2/3 3/5 3/5 4/5
1/2 1/4
1/2 1/2 1/2
1
1/2
3
2
3
6

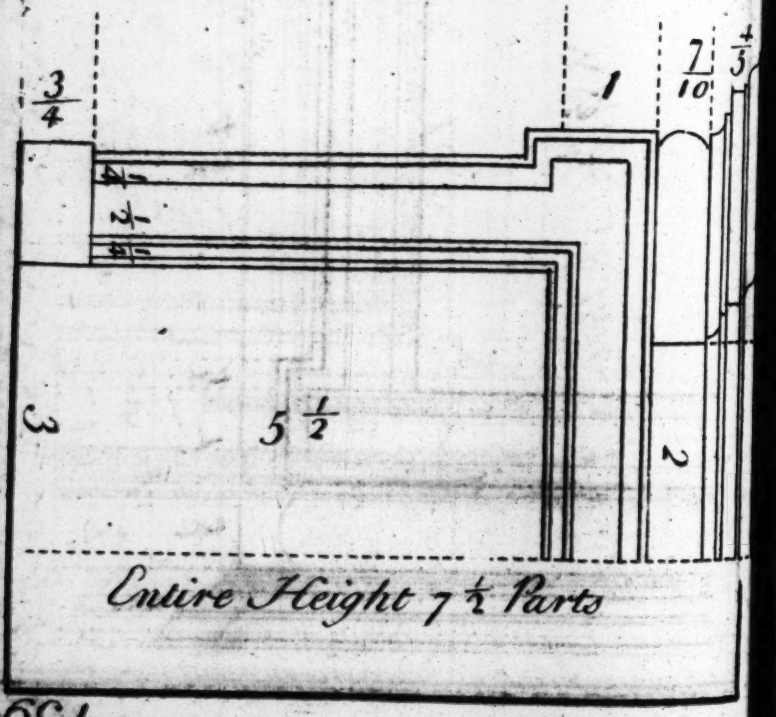

1 1/3
1/2
9
2 1/4


2 1/4
1 1/2
9
8 1/4
Entire Height 11 3/4 Parts
1
1/3
1
1/2
4
2 1/2
3/4
1 1/3
1 1/3
1 1/3
1 1/3

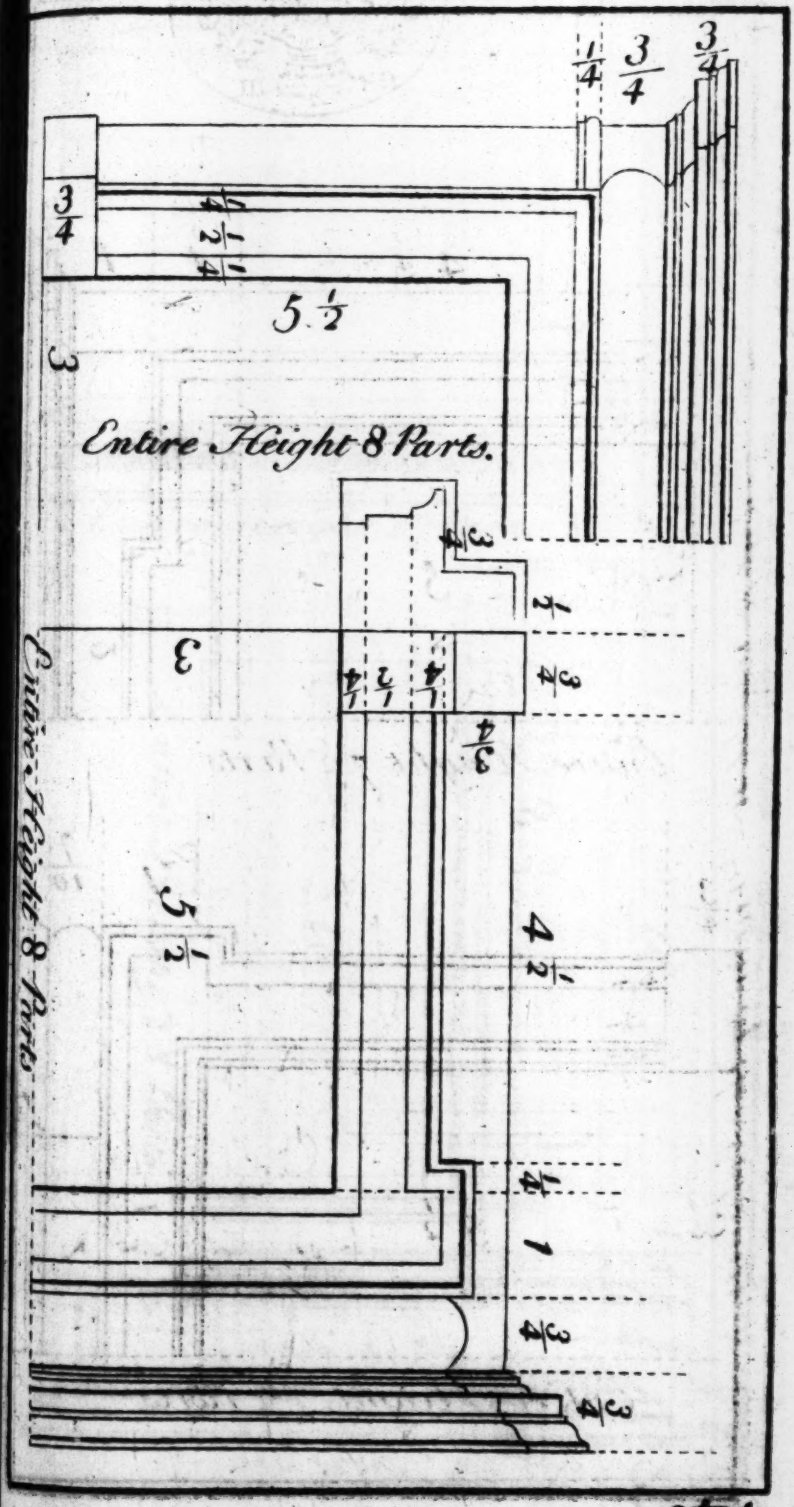

3
3
1
19
18
2
10
1
3
Entire Height 27 Parts
1
1
2
16
4
1
1/2
2
1/4
2 1/4
6
18
7
Entire Height 28 Parts

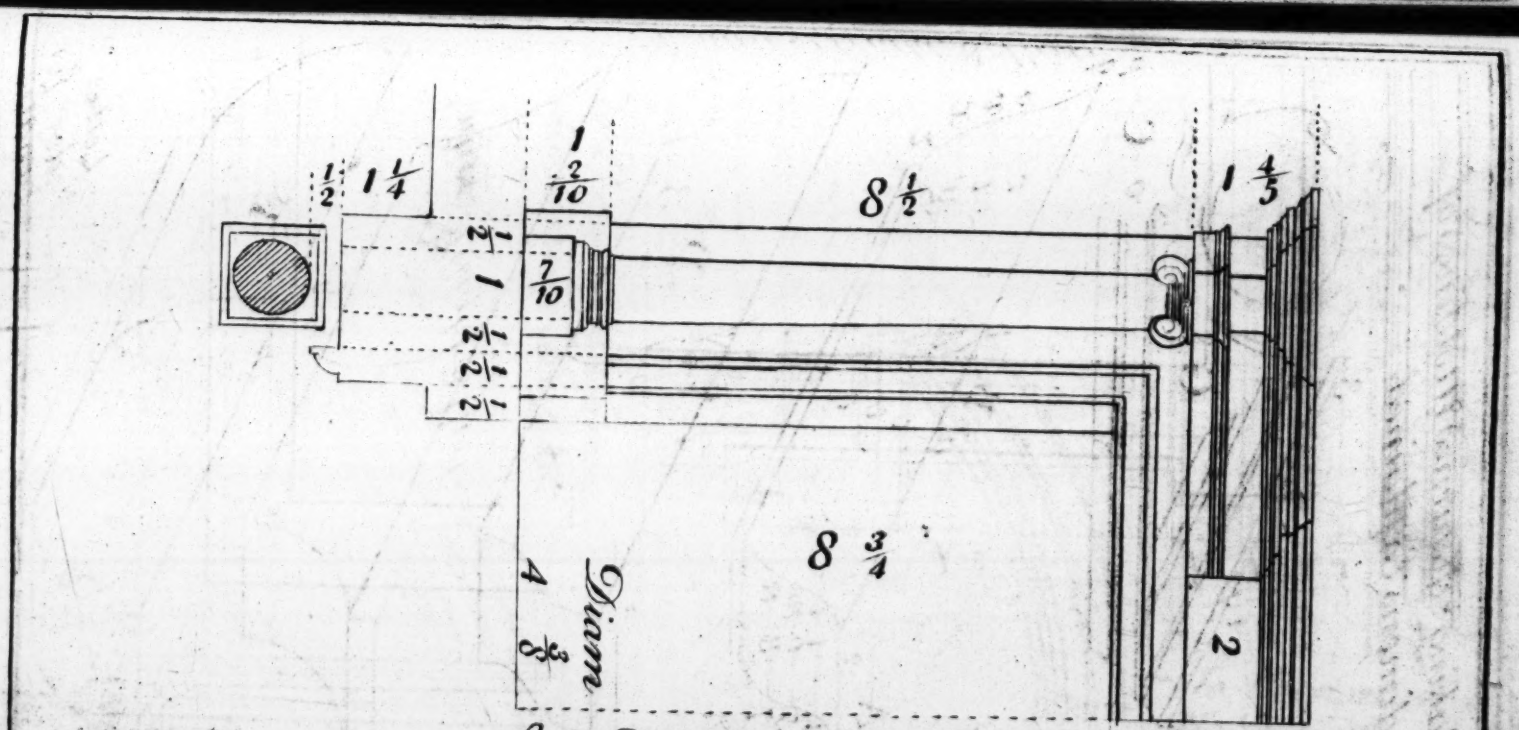


Entire Height 7 1/2 Parts



Entire Height 7 1/2 Parts


1/4
3/4
3/4
3/4
1/2
1/4
5 1/2
3
Entire Height 8 Parts.
3/4
1/2
3
1/4
1/2
1/4
3/4
3/4
5 1/2
4 1/2
1/4
1
3/4
3/4
Entire Height 8 Parts



Entire Height 11 1/2 Diam. of the Column.

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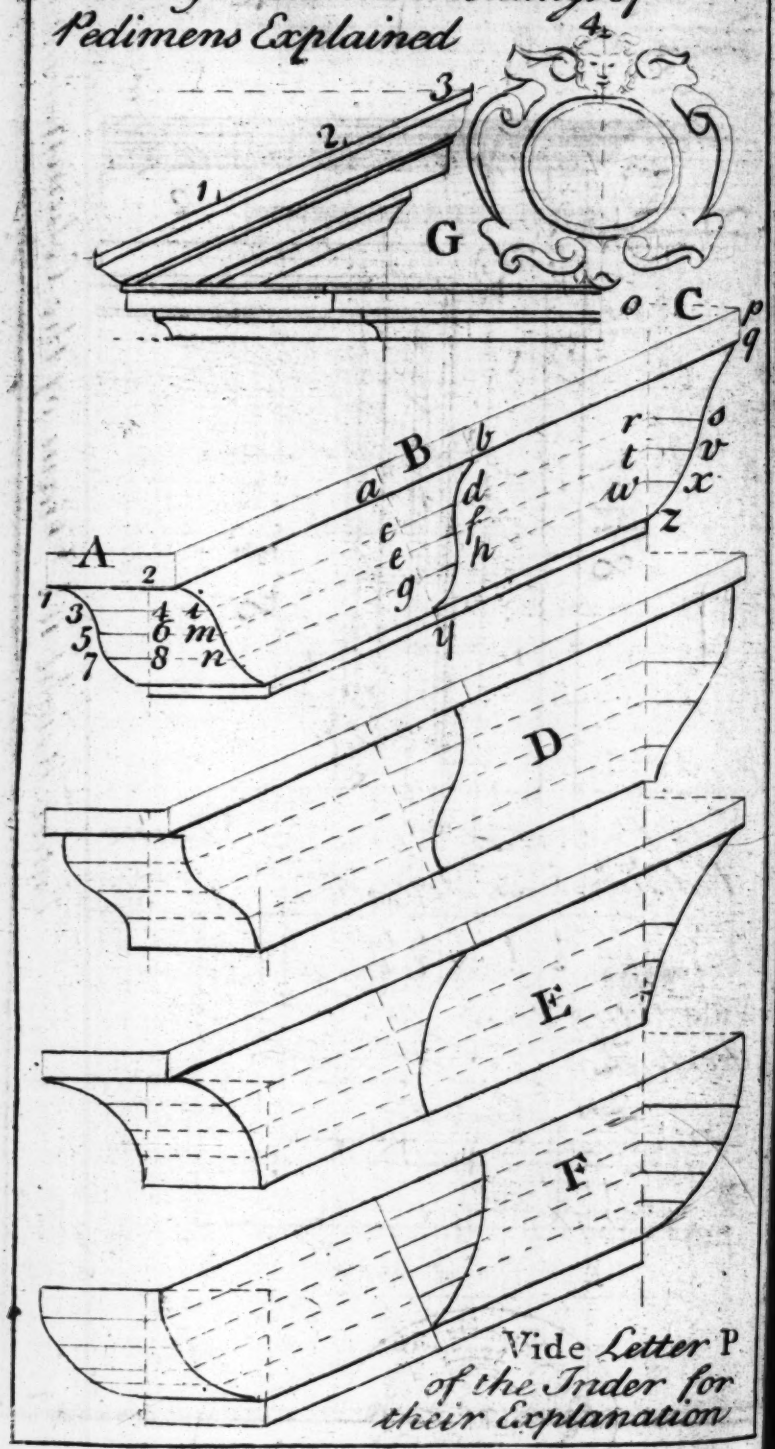
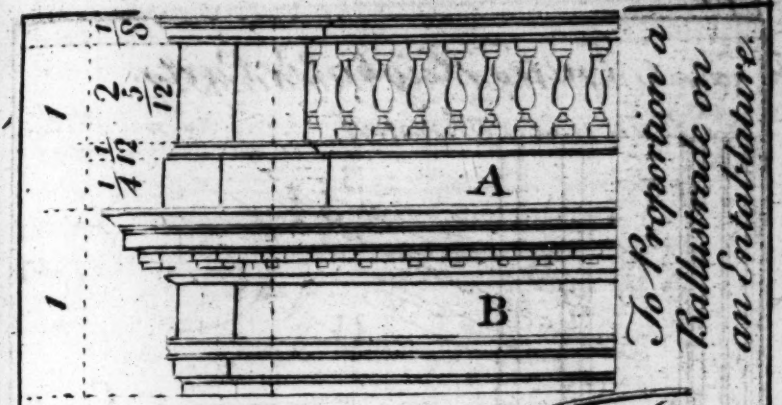
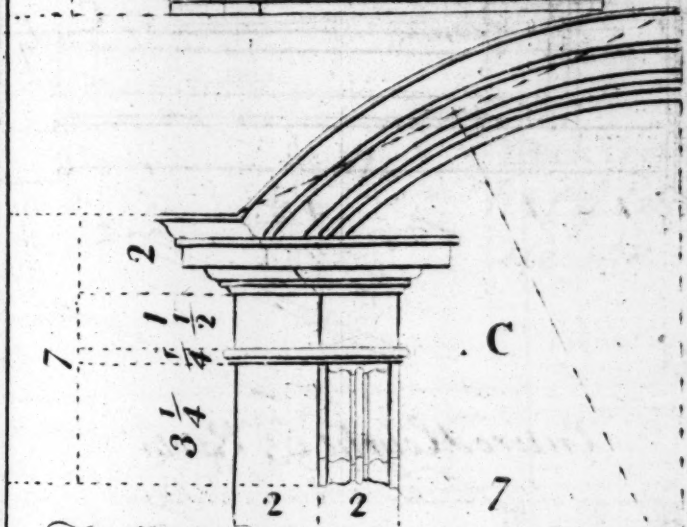
Raking & Returned Moldings of Pedimens Explained



Vide Letter P of the Inder for their Explanation

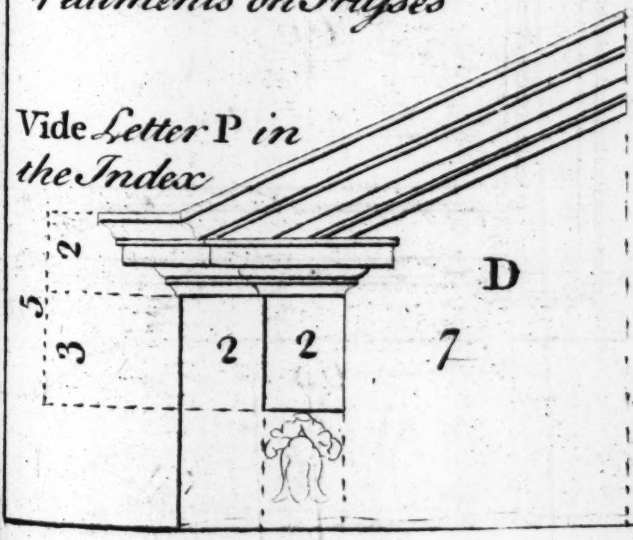


To Proportion a Ballustrade on an Entablature.

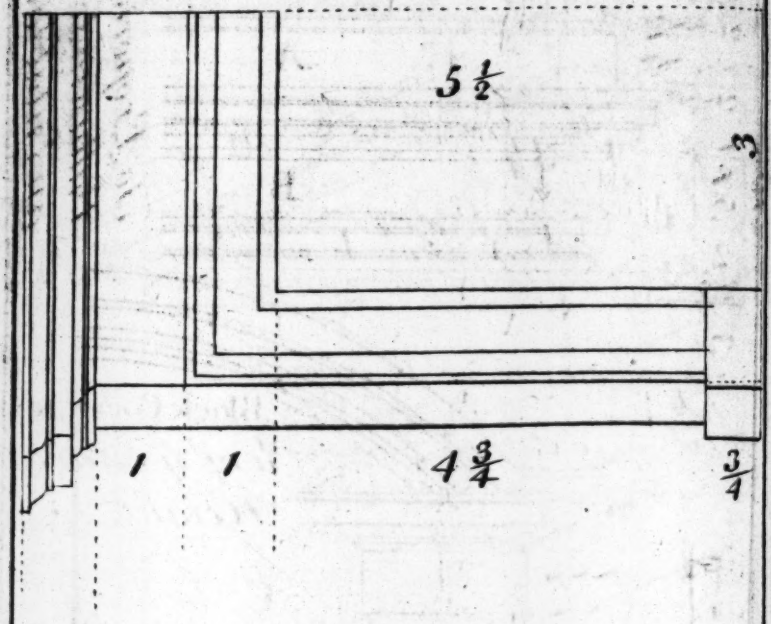


To Proportion Open Pediments on Truſses

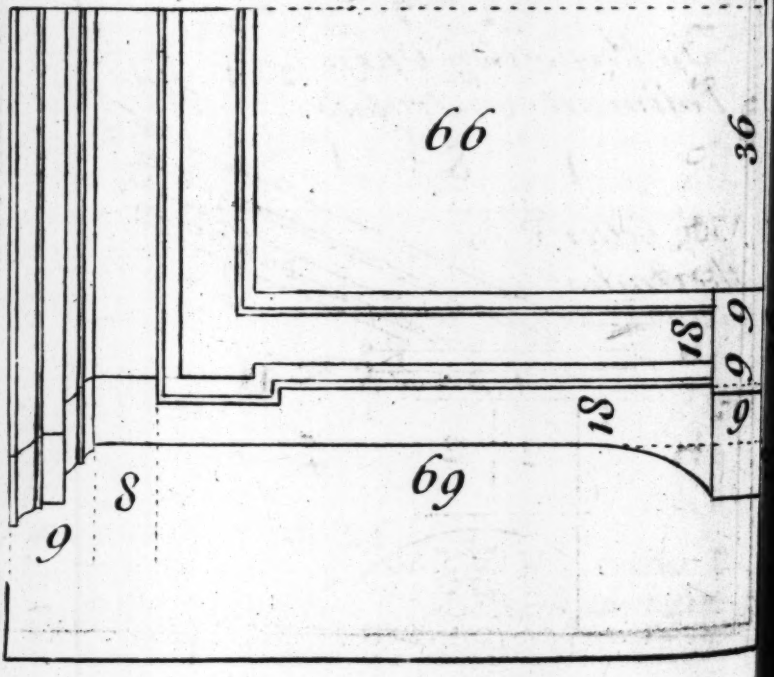
Vide Letter P in the Index

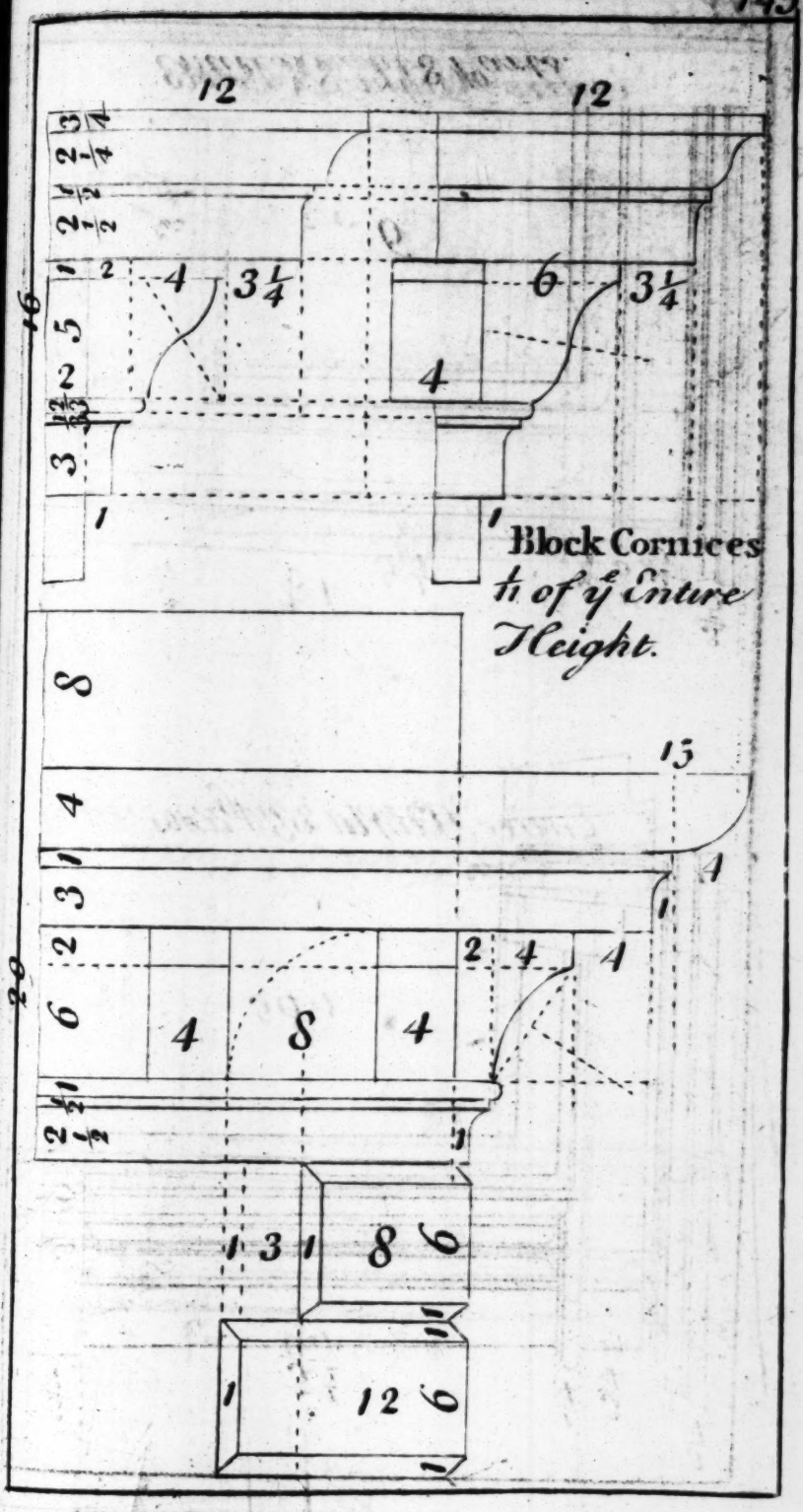


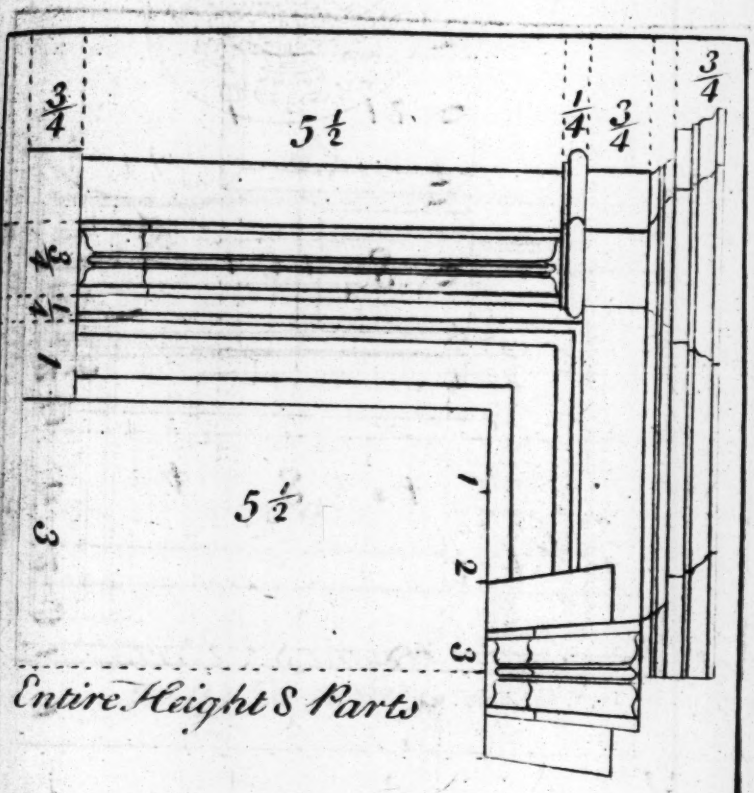
Entire Height 8 1/4 Parts.



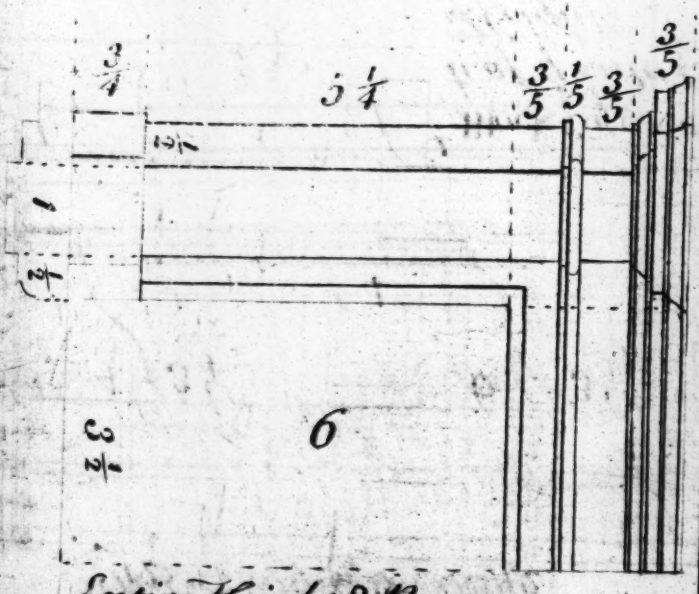
Entire Height 95 Parts



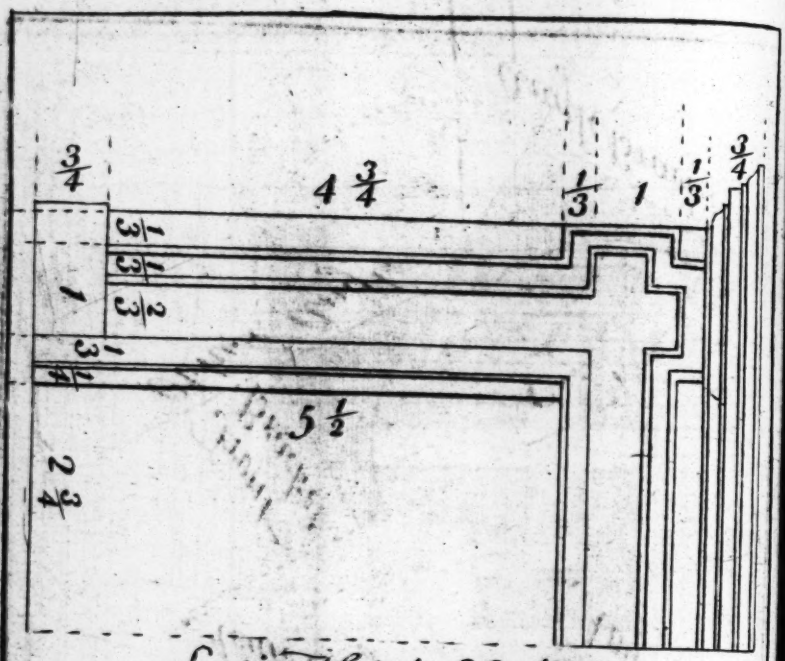

12
12
3 1/4
2 1/4
2 1/2
2 1/2
1
2
4
3 1/4
6
3 1/4
16
5
2
4
3
1
1
Block Cornices
th of y^e Entire
Height.
8
13
4
3
1
1
2
2
4
4
20
6
4
8
4
2 1/2
2 1/2
1
1
3
1
8
6
1
12
6
1



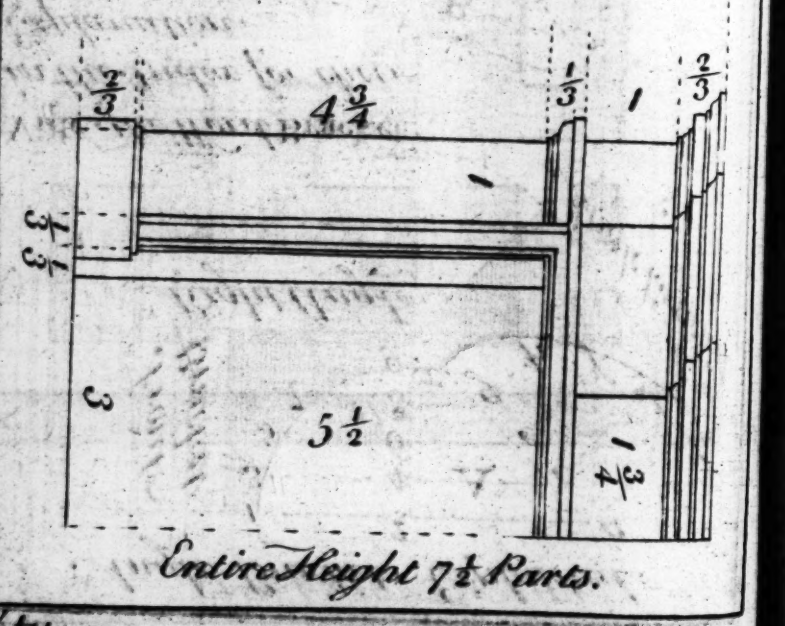
Entire Height 8 Parts



Entire Height 8 Parts.

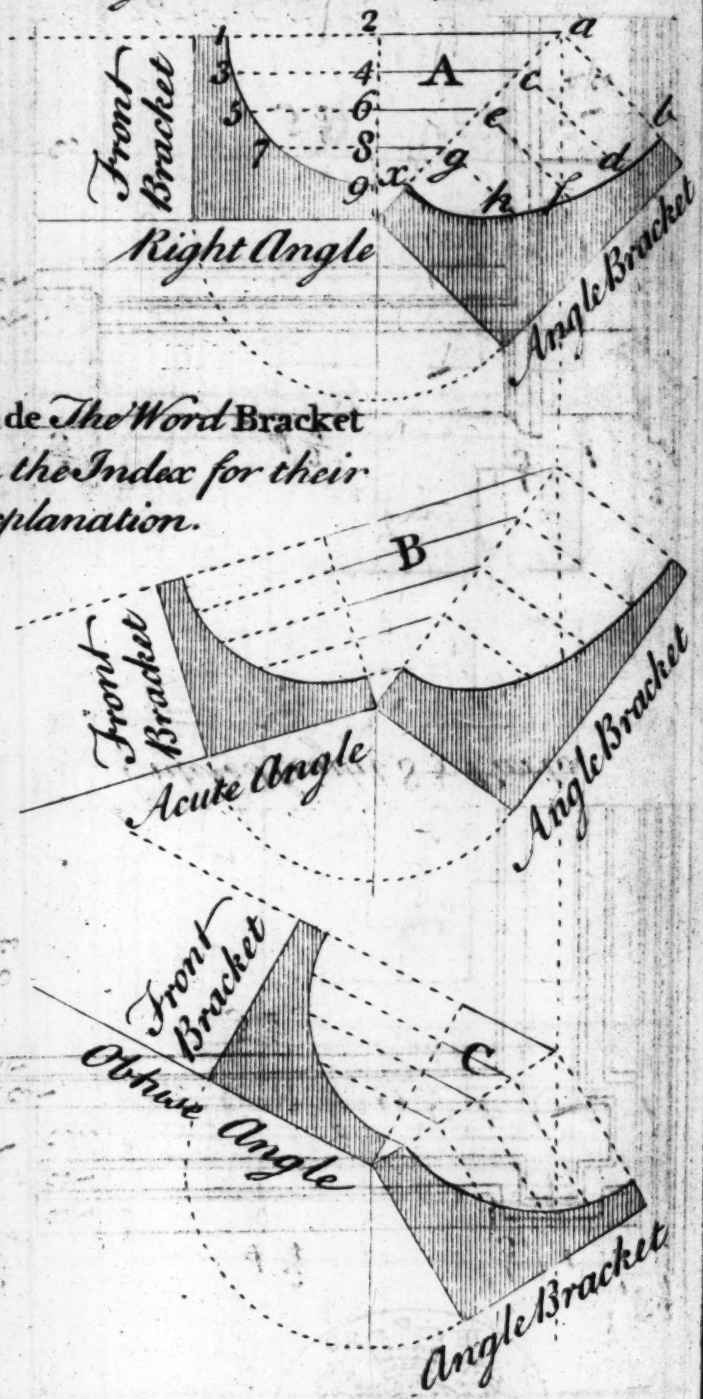


Entire Height 8 2/3 Parts.

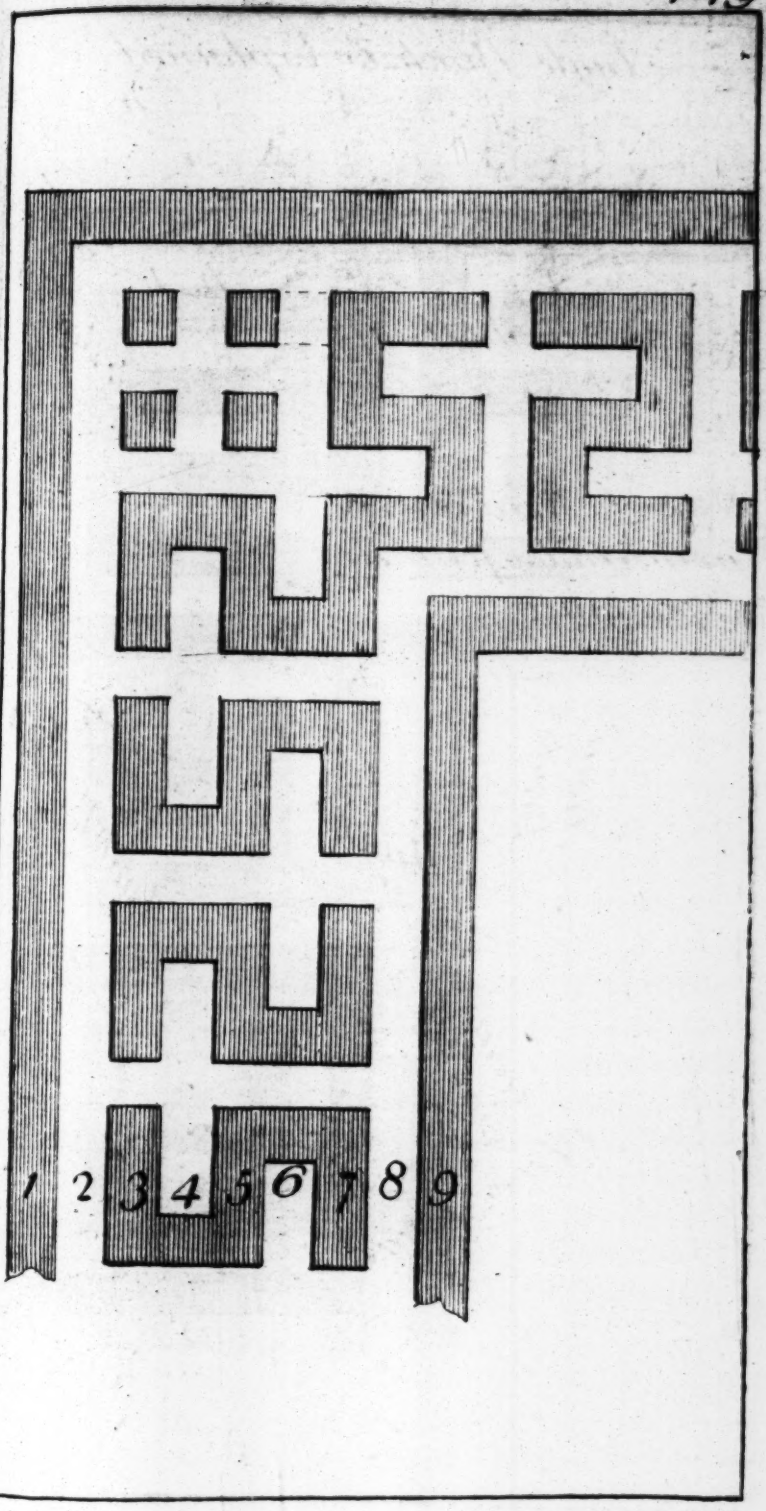


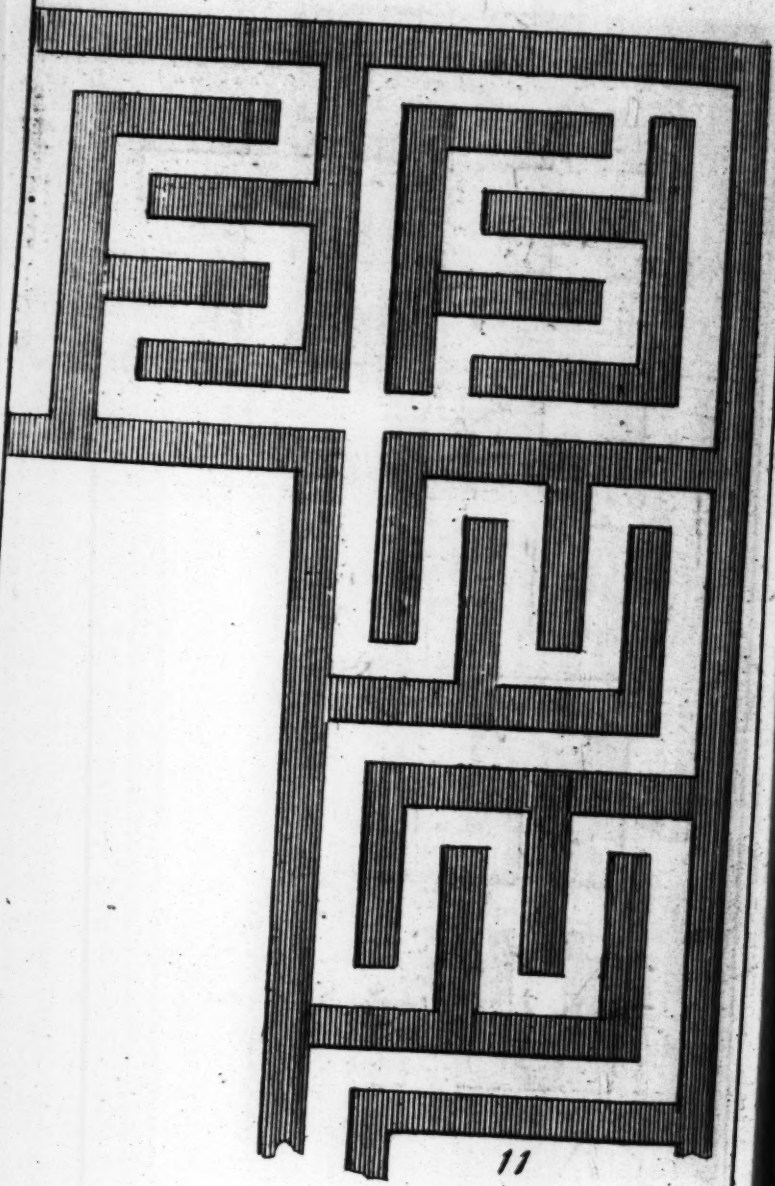
Entire Height 7 1/2 Parts.

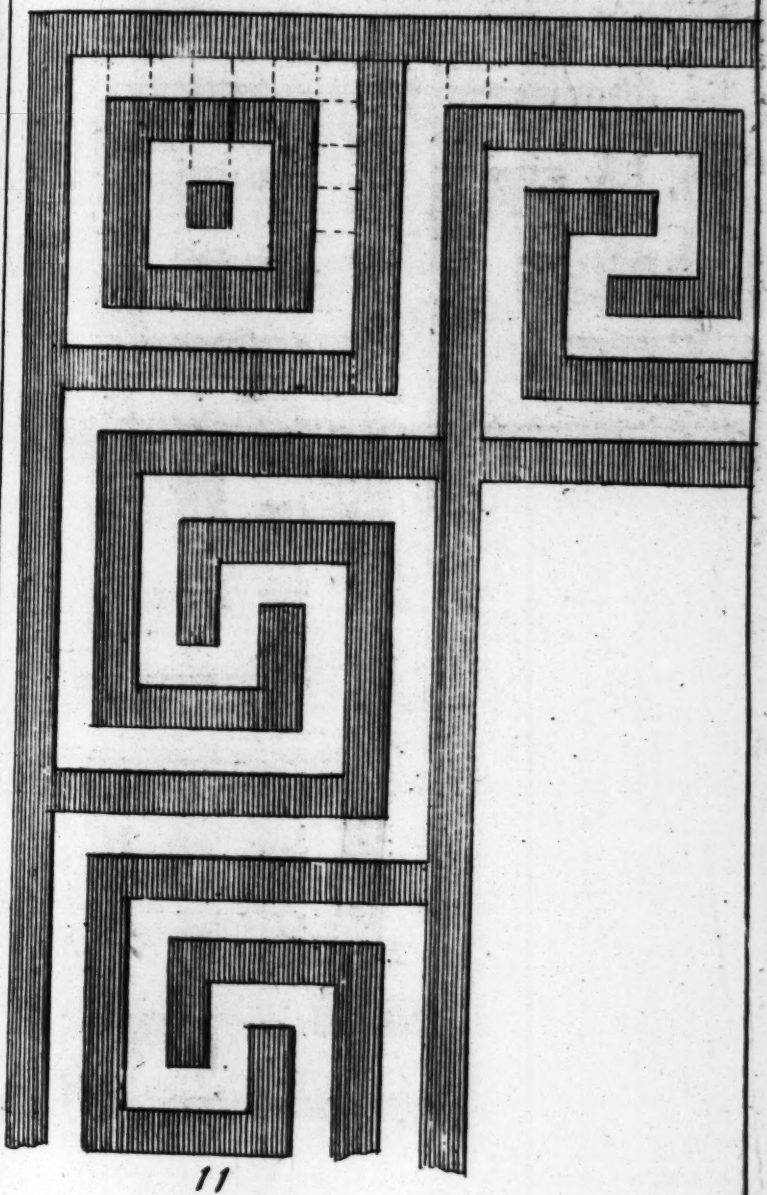
Angle Brackets Explained.



Vide *The Word* **Bracket** *in the Index for their Explanation.*


1 2 3 4 5 6 7 8 9





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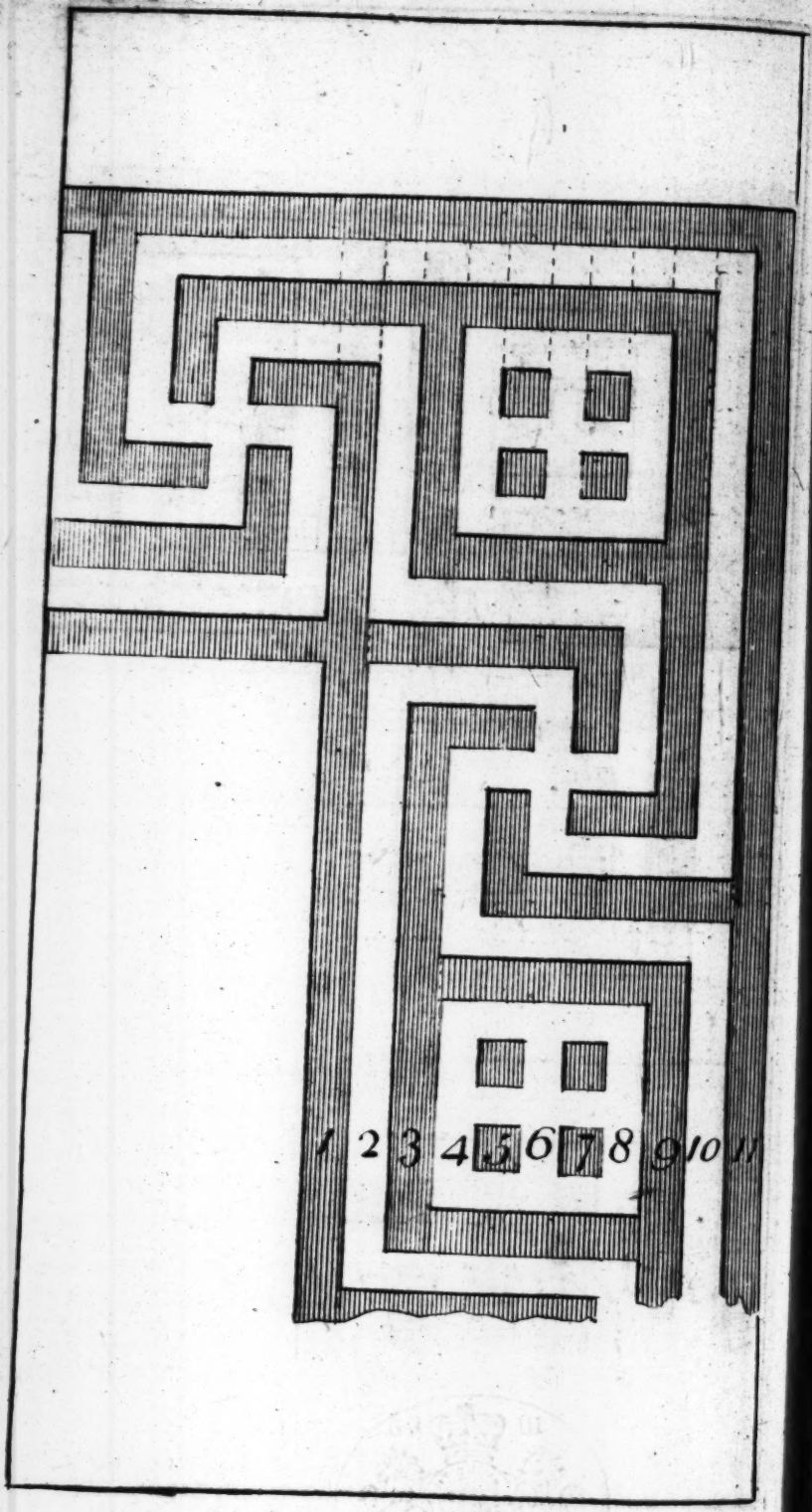
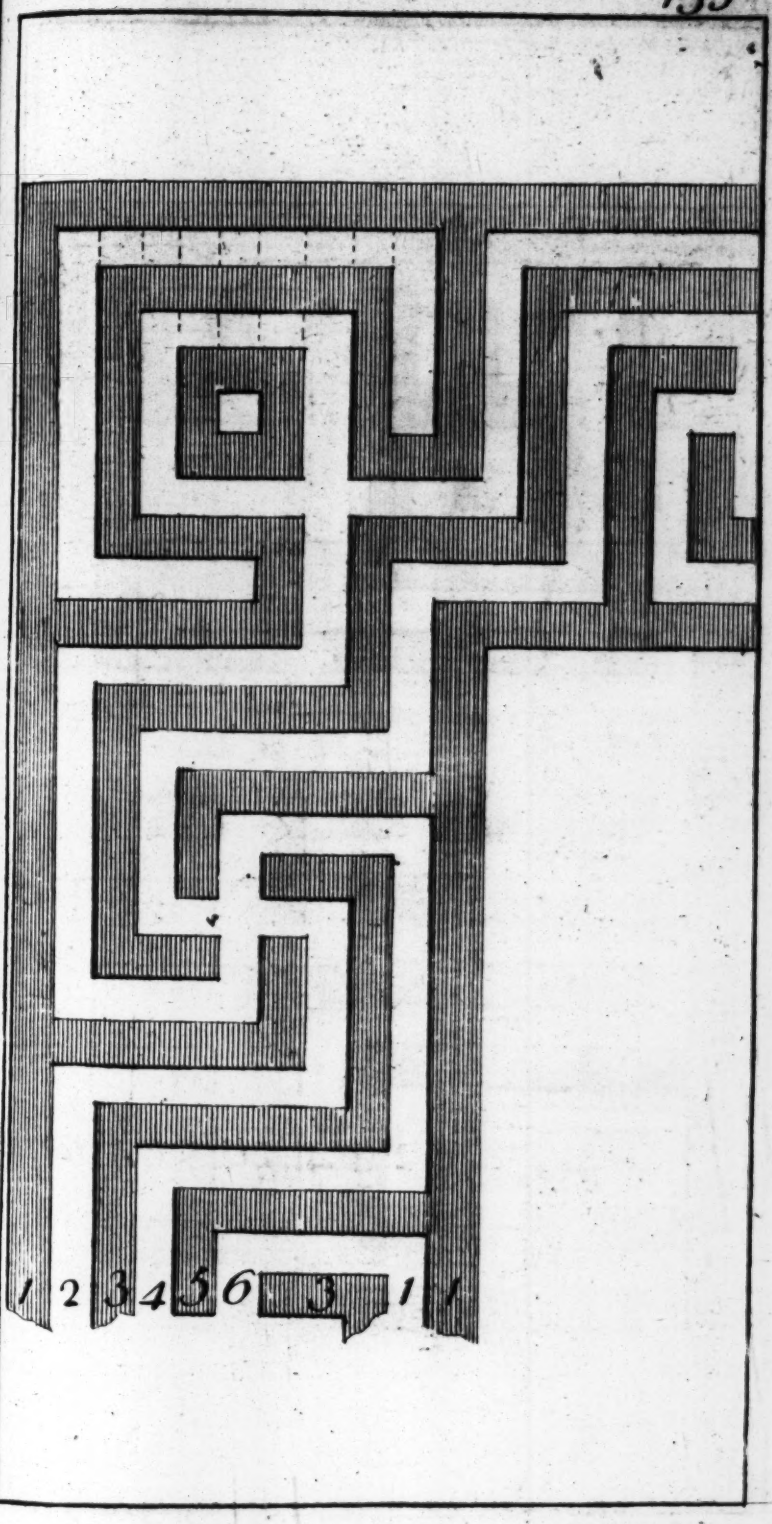
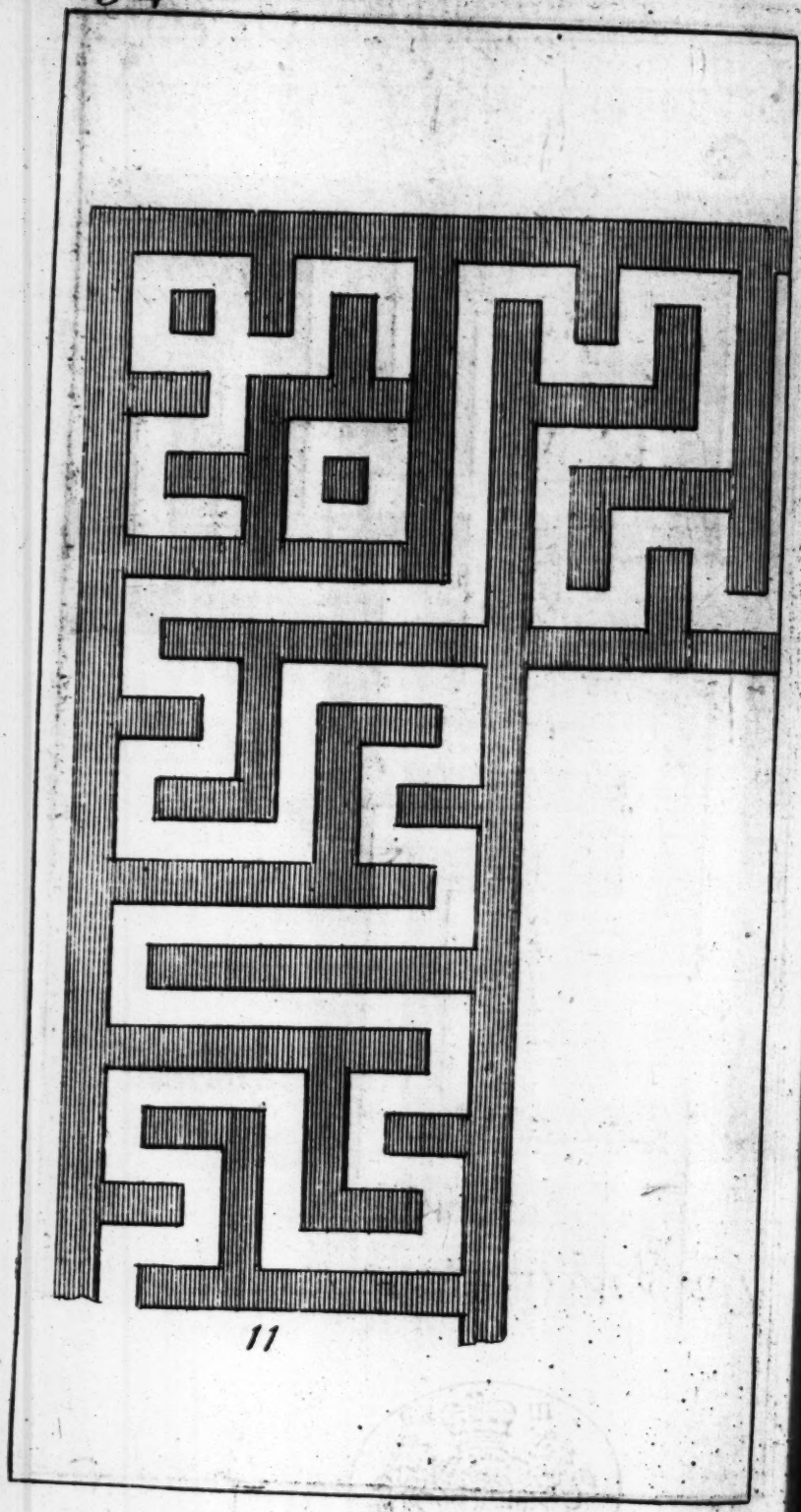

1 2 3 4 5 6 7 8 9 10 11


1 2 3 4 5 6 3 1 1



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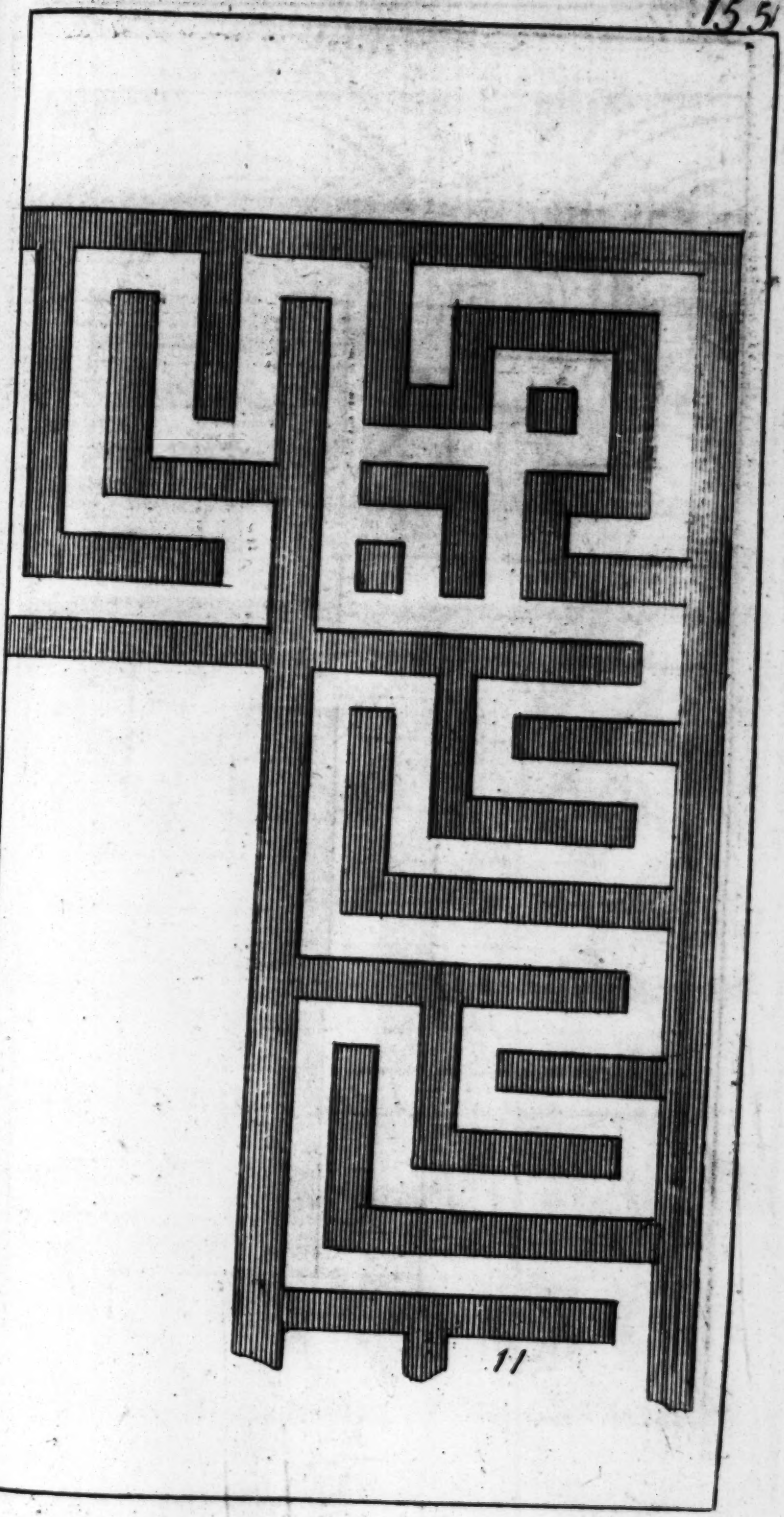
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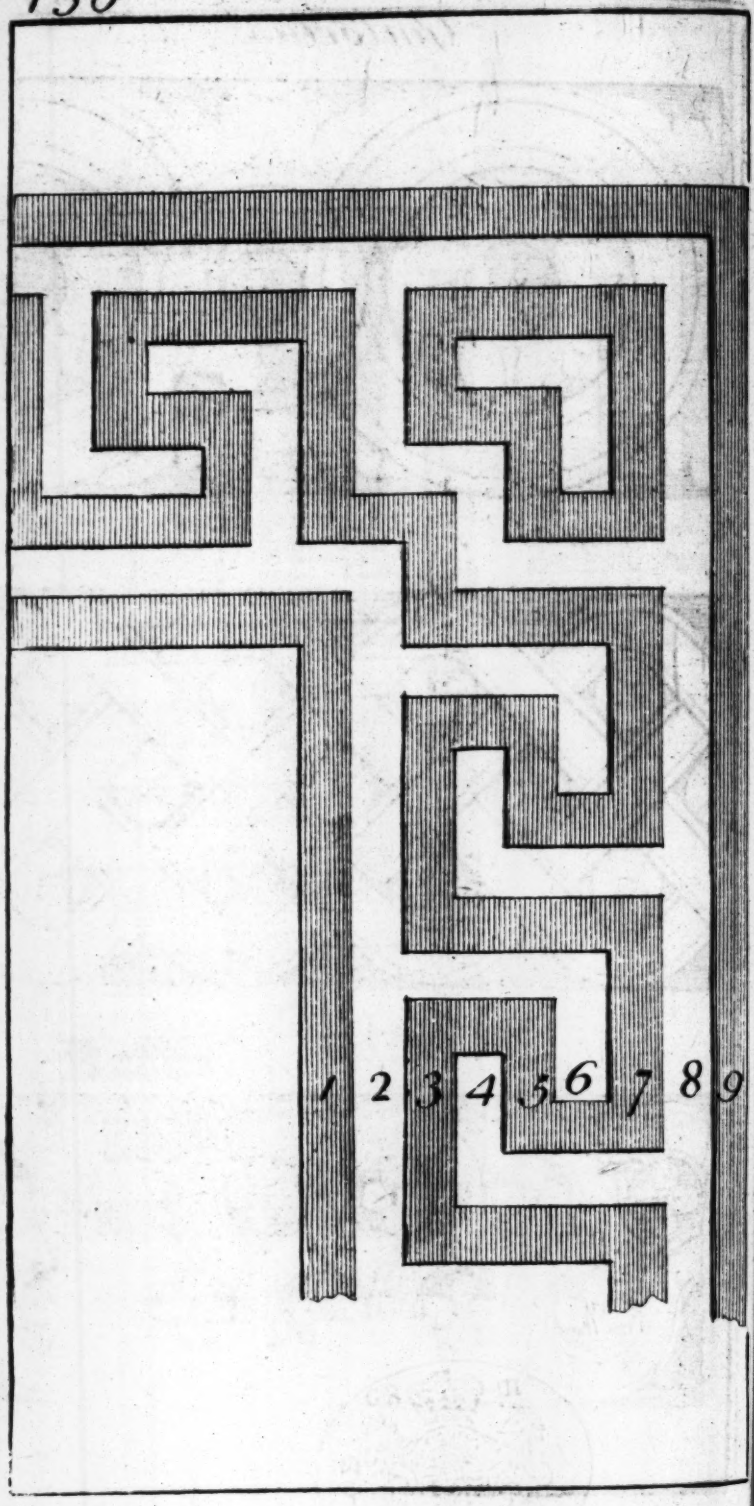
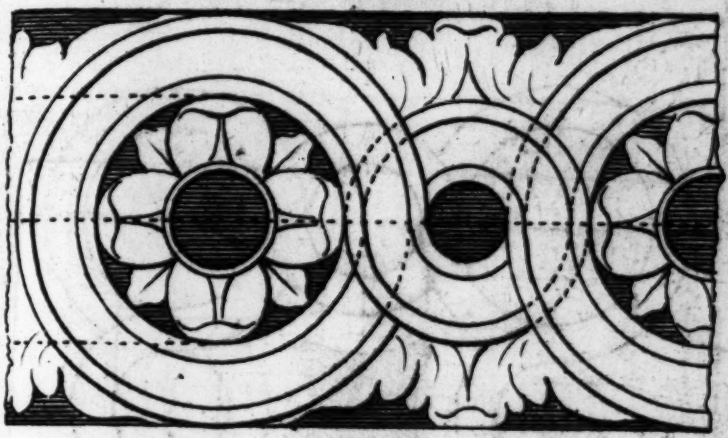
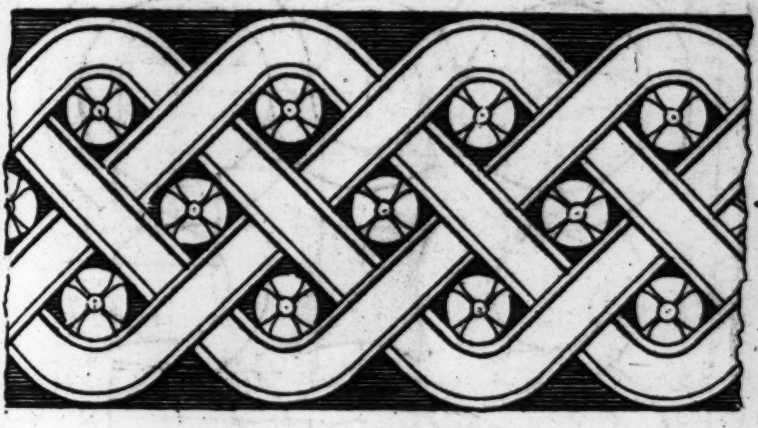
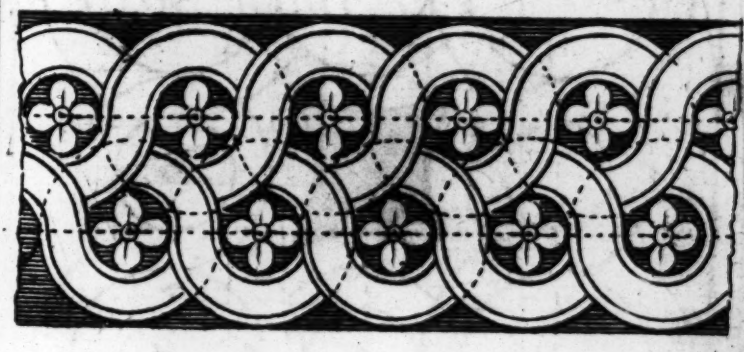

1 2 3 4 5 6 7 8 9

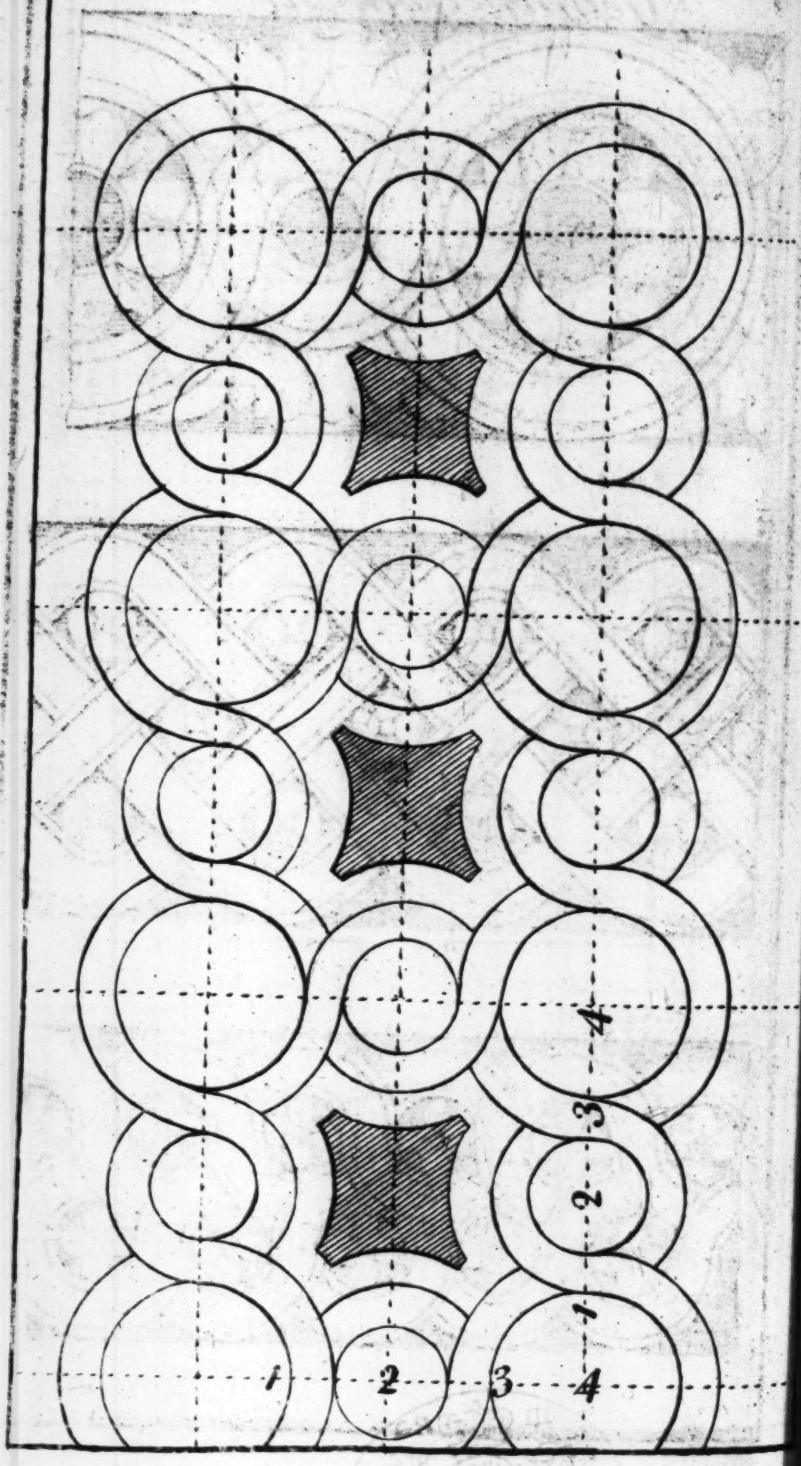
Guilochis



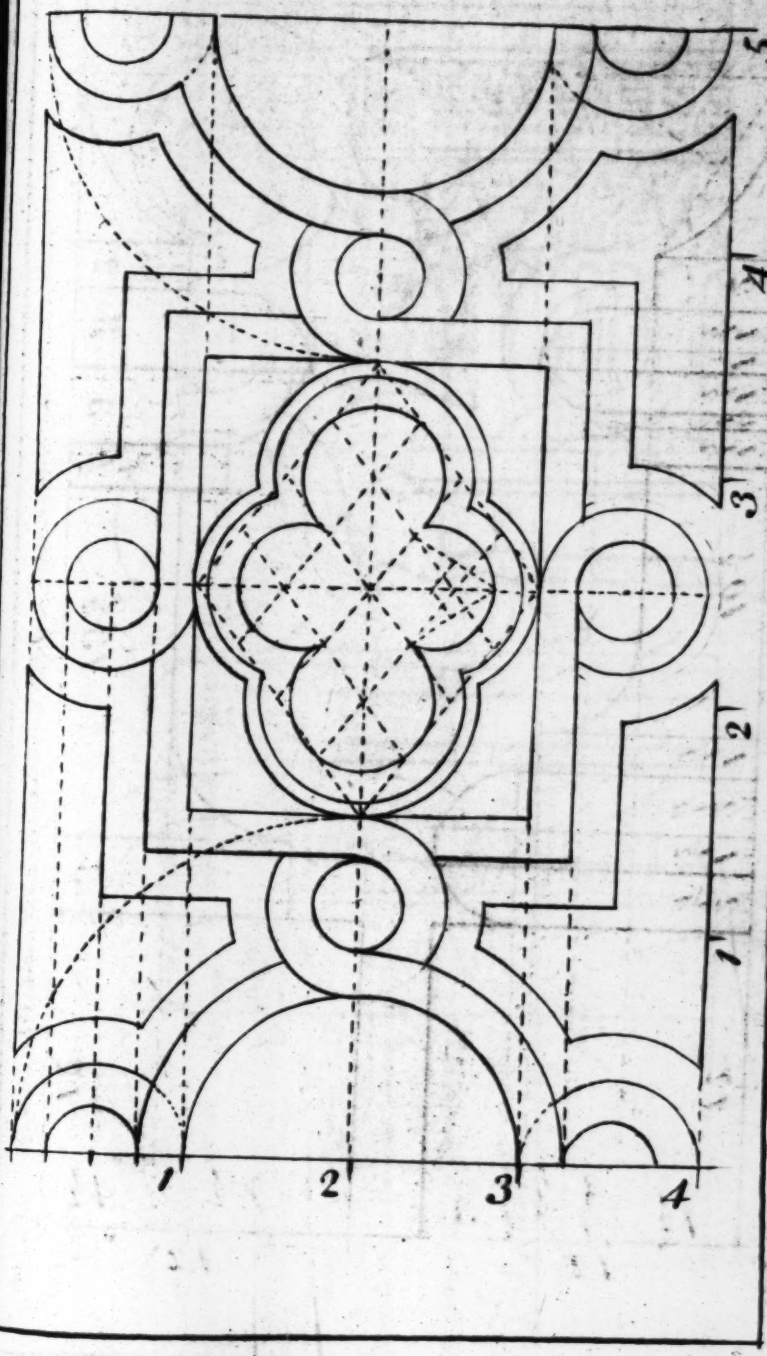




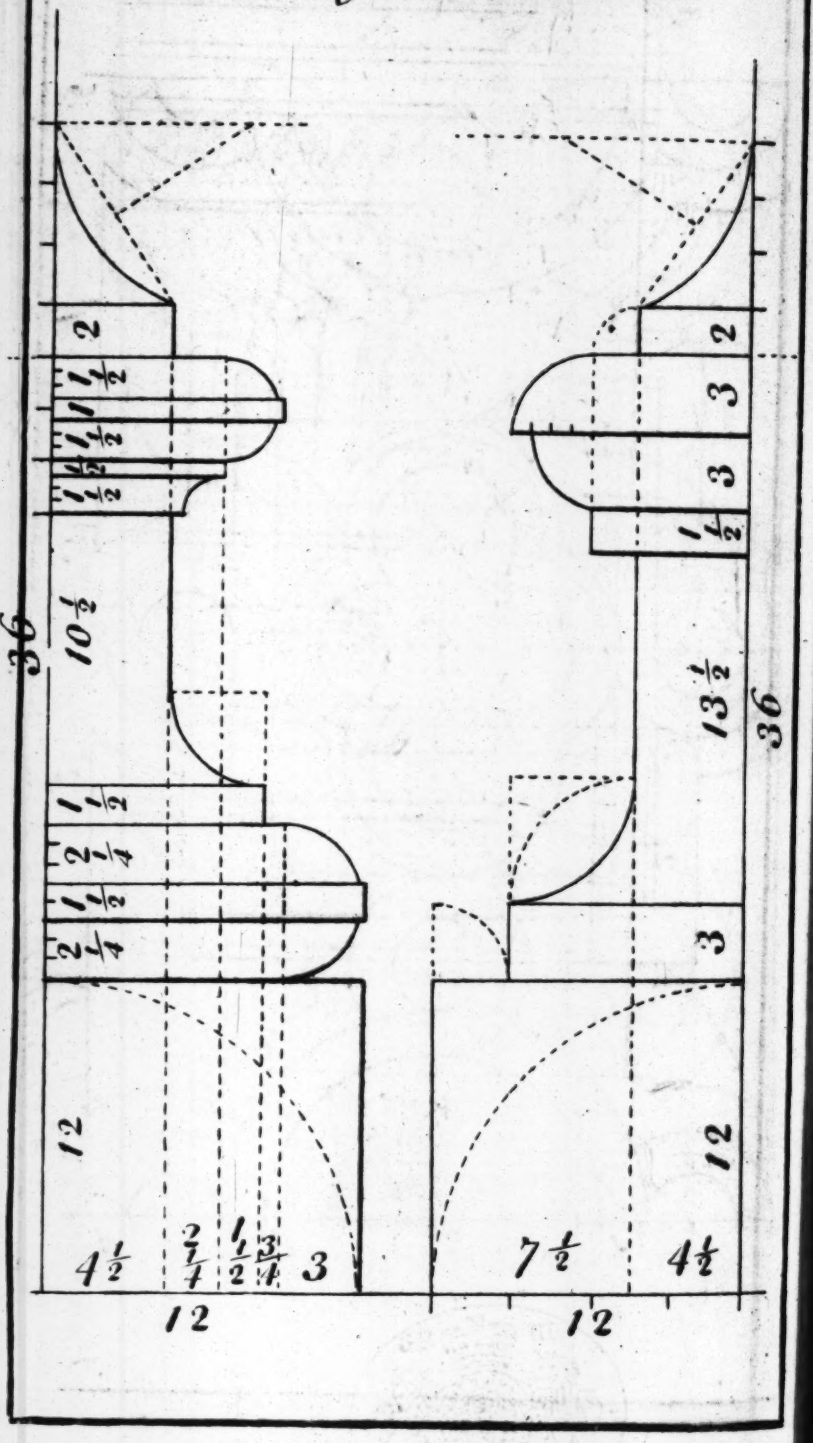
The Antieni Guilochi.



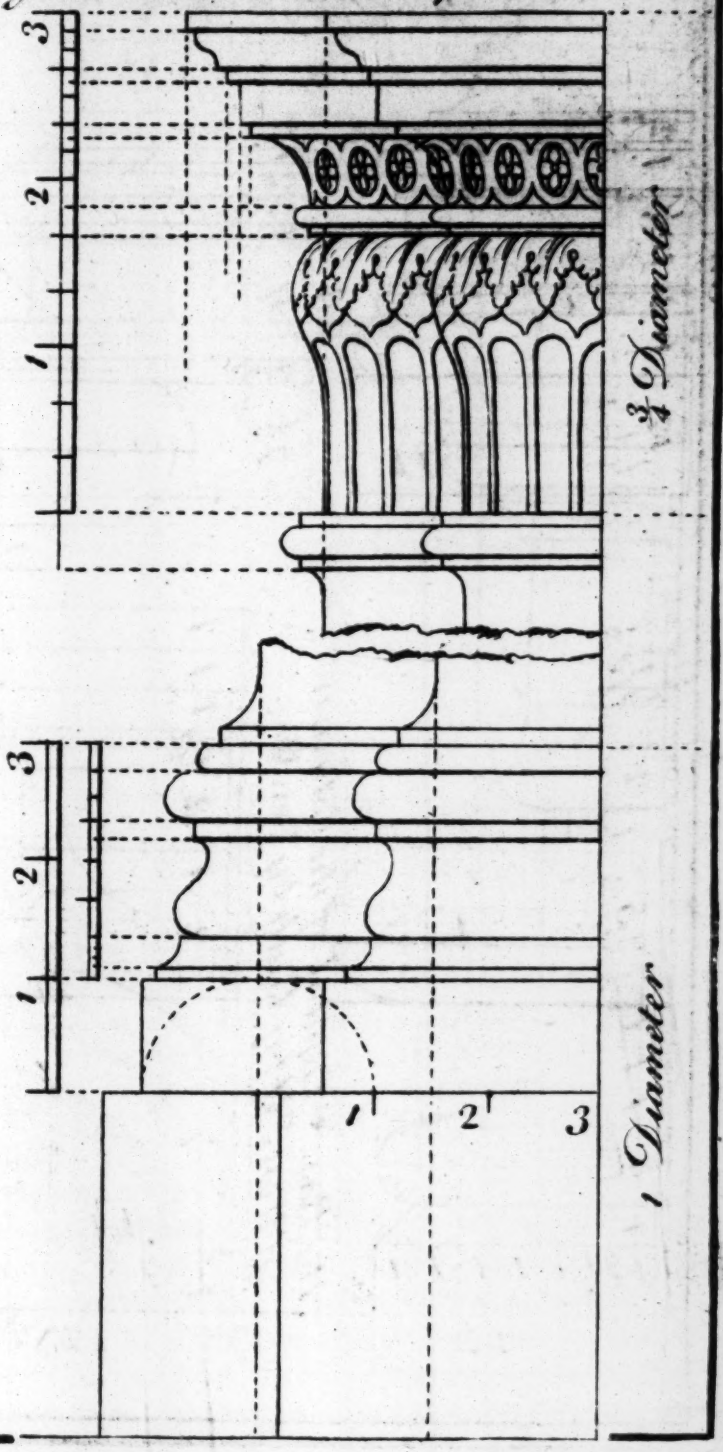
Gothick Guilochi.

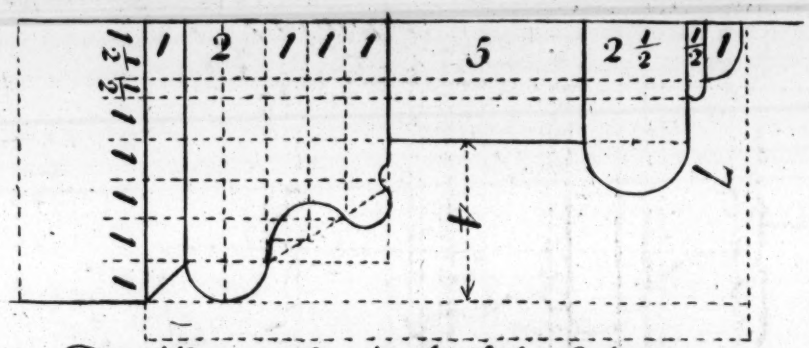


Bases for Gothick Columns

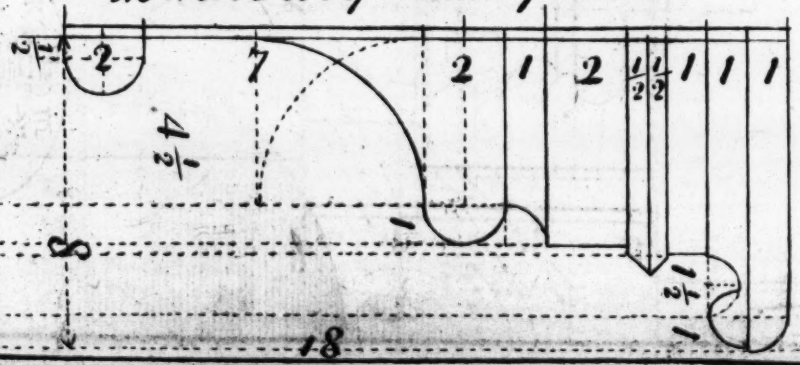


Gothick Base and Capital.





The Base & Capital of the Column in West.r Abby Built by Hen III.



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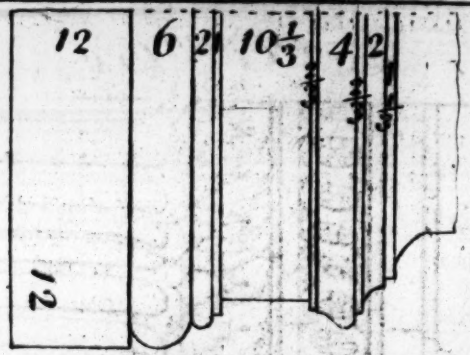

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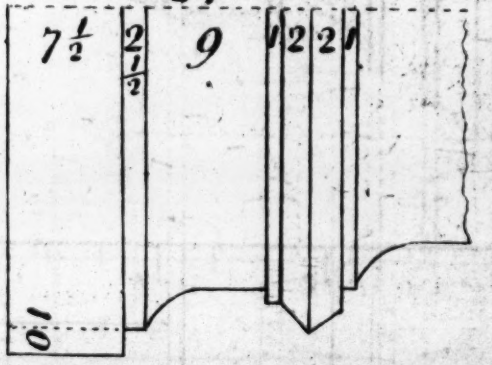
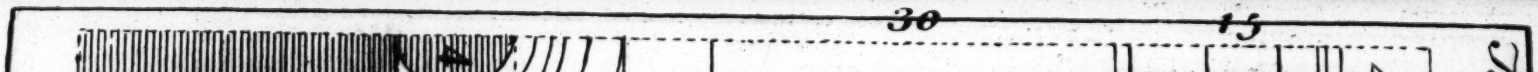
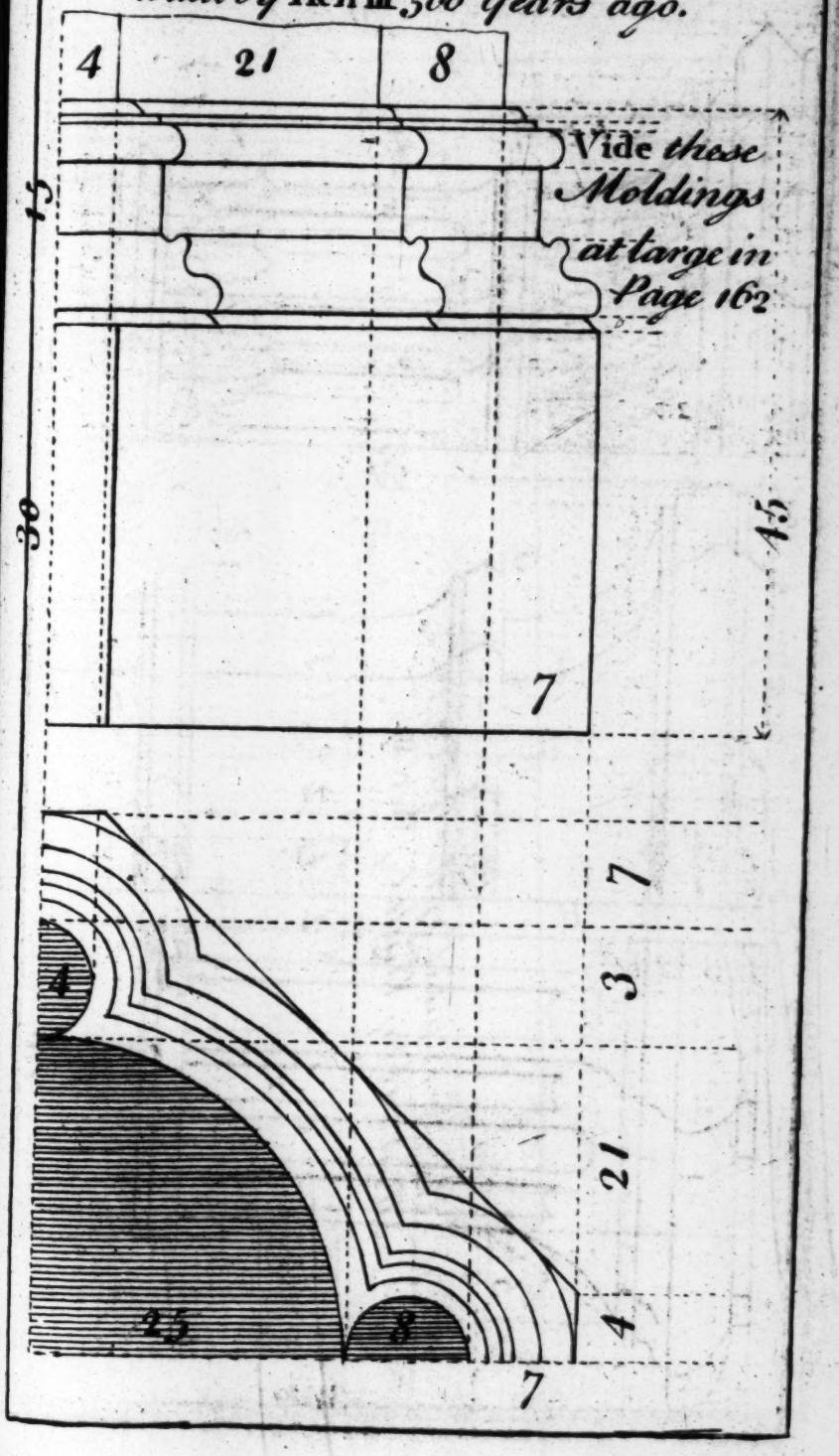


Bases for Gothick Columns

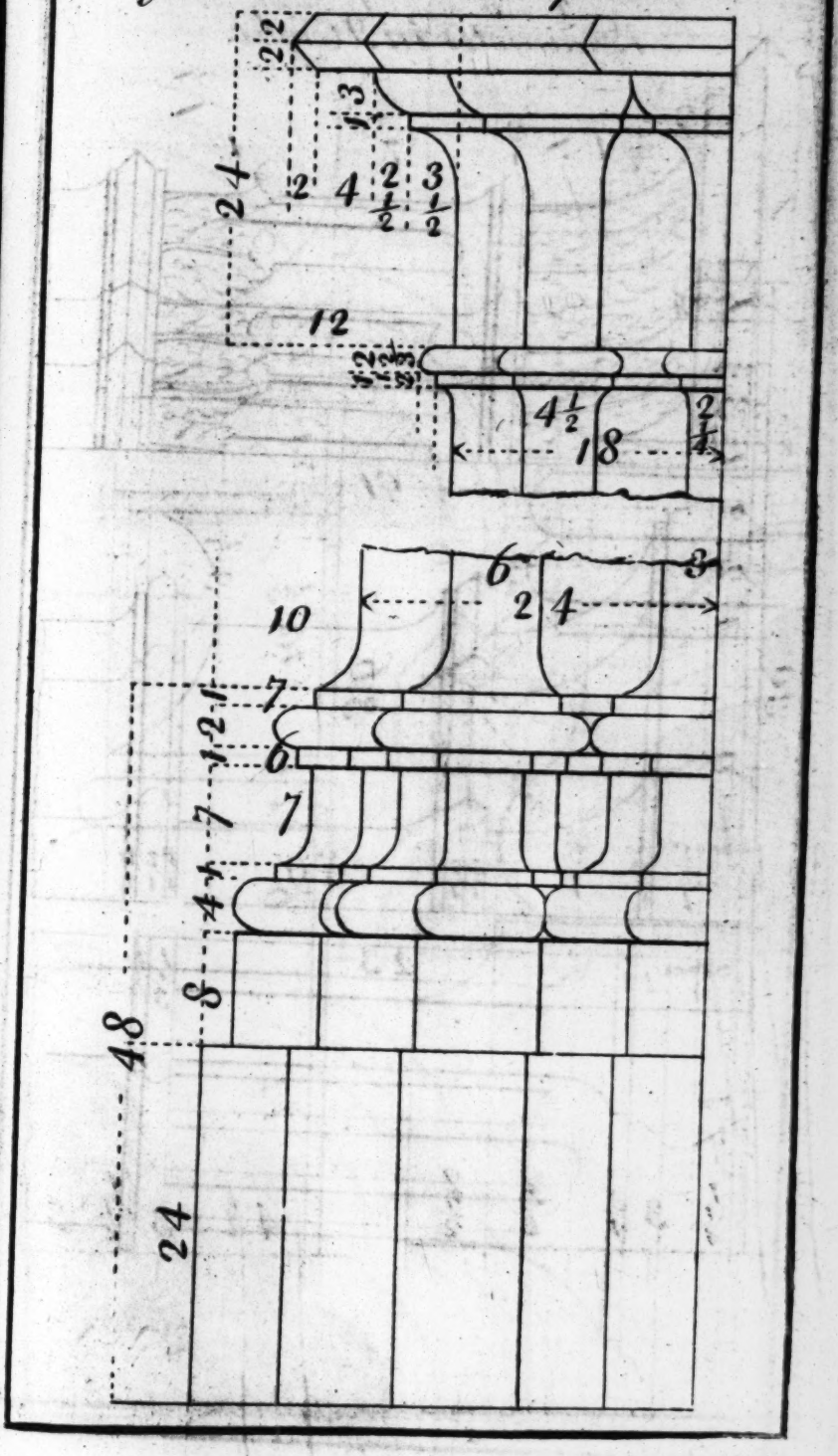


The Base & Plan of ye Column in West. Abby
Built by Hen III. 500 Years ago.

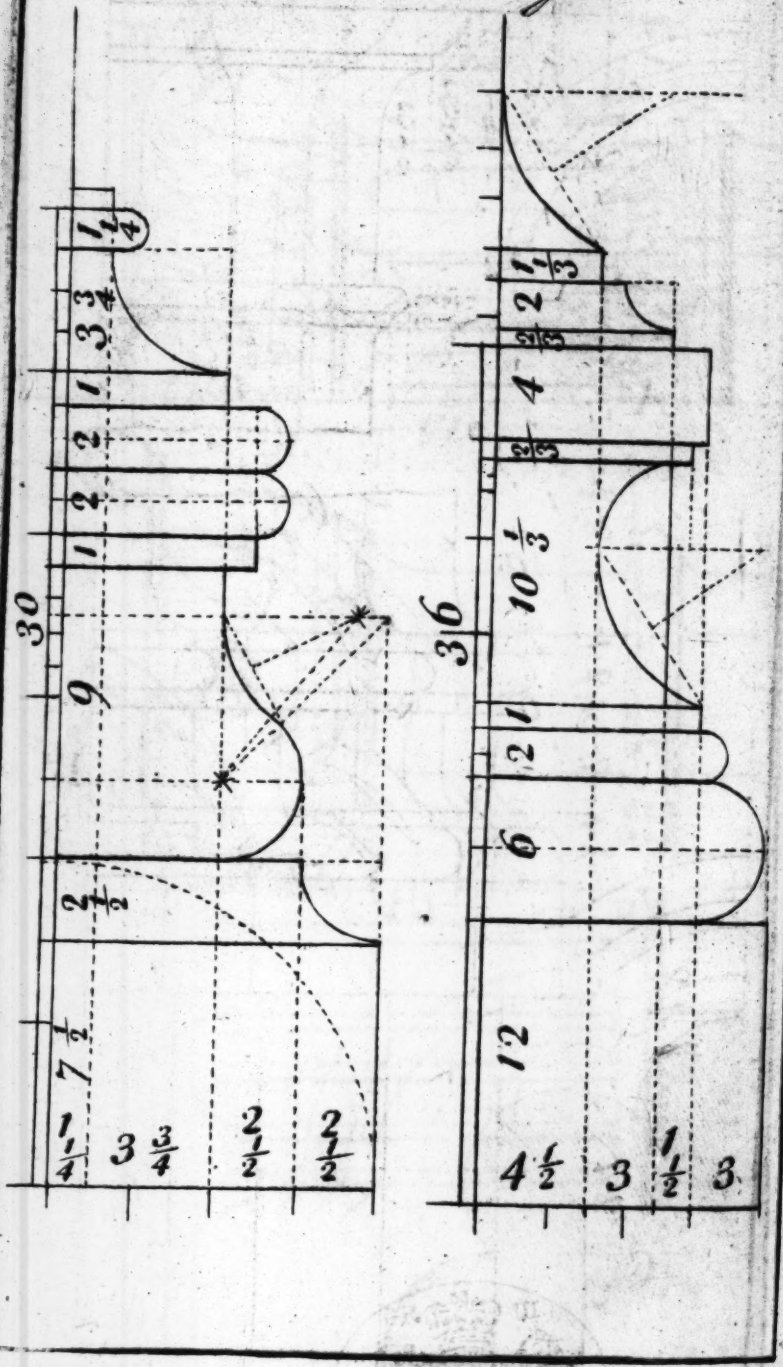


Gothick Capitals

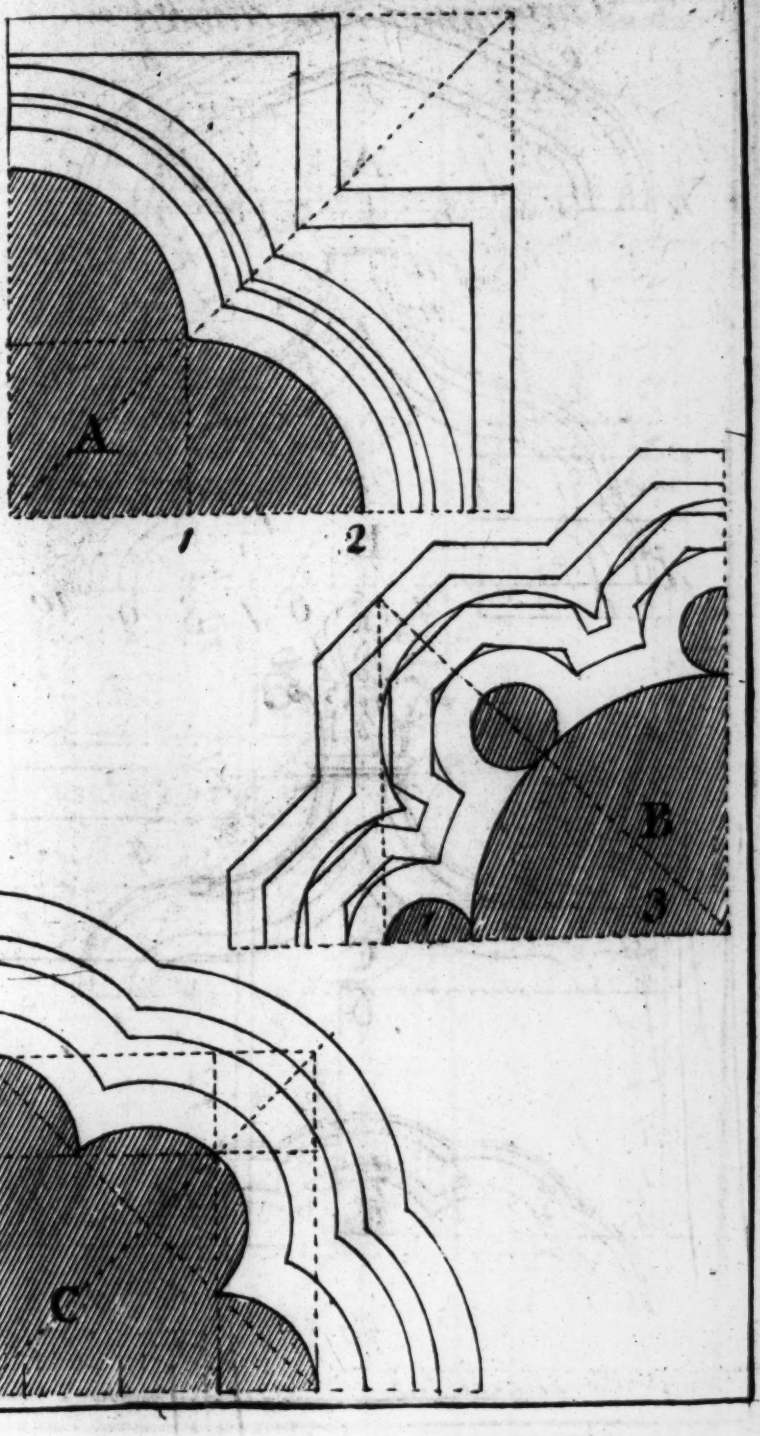
Gothick Base and Capital



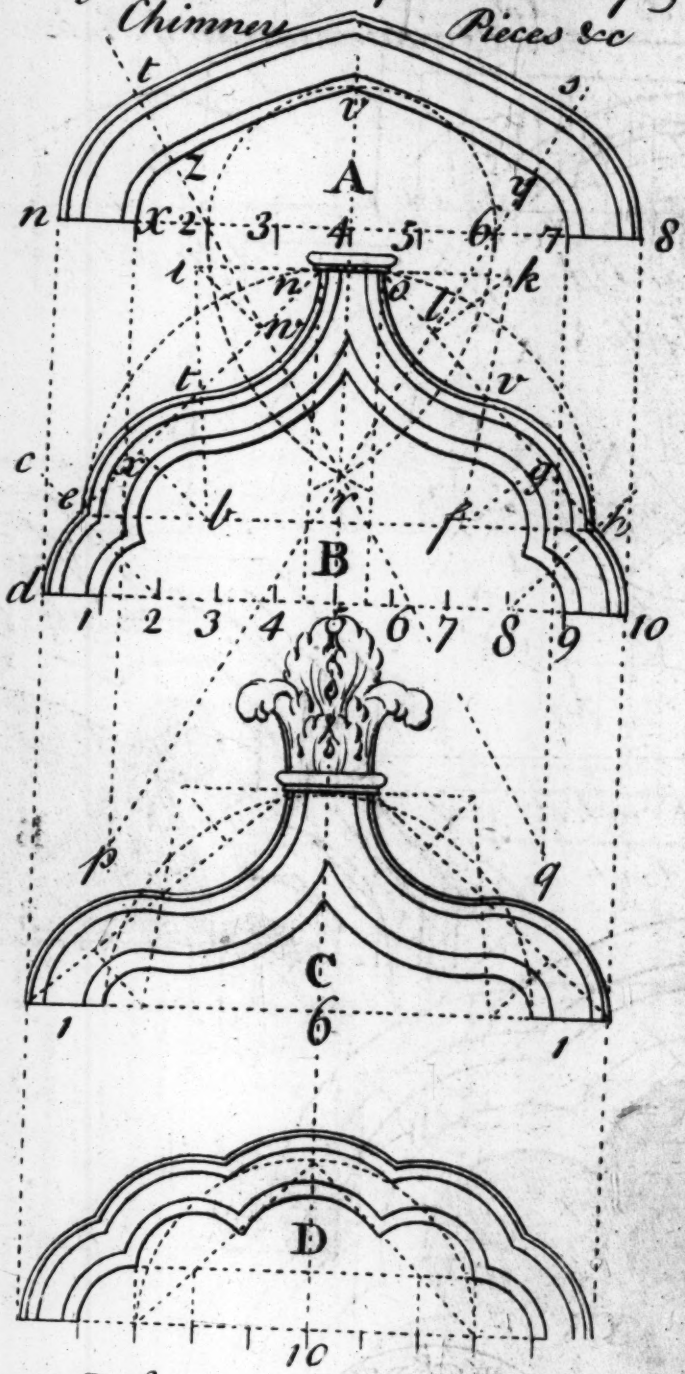
Bases for Gothick Columns
1 Diameter in Height.



Shafts *of Gothick Columns.*

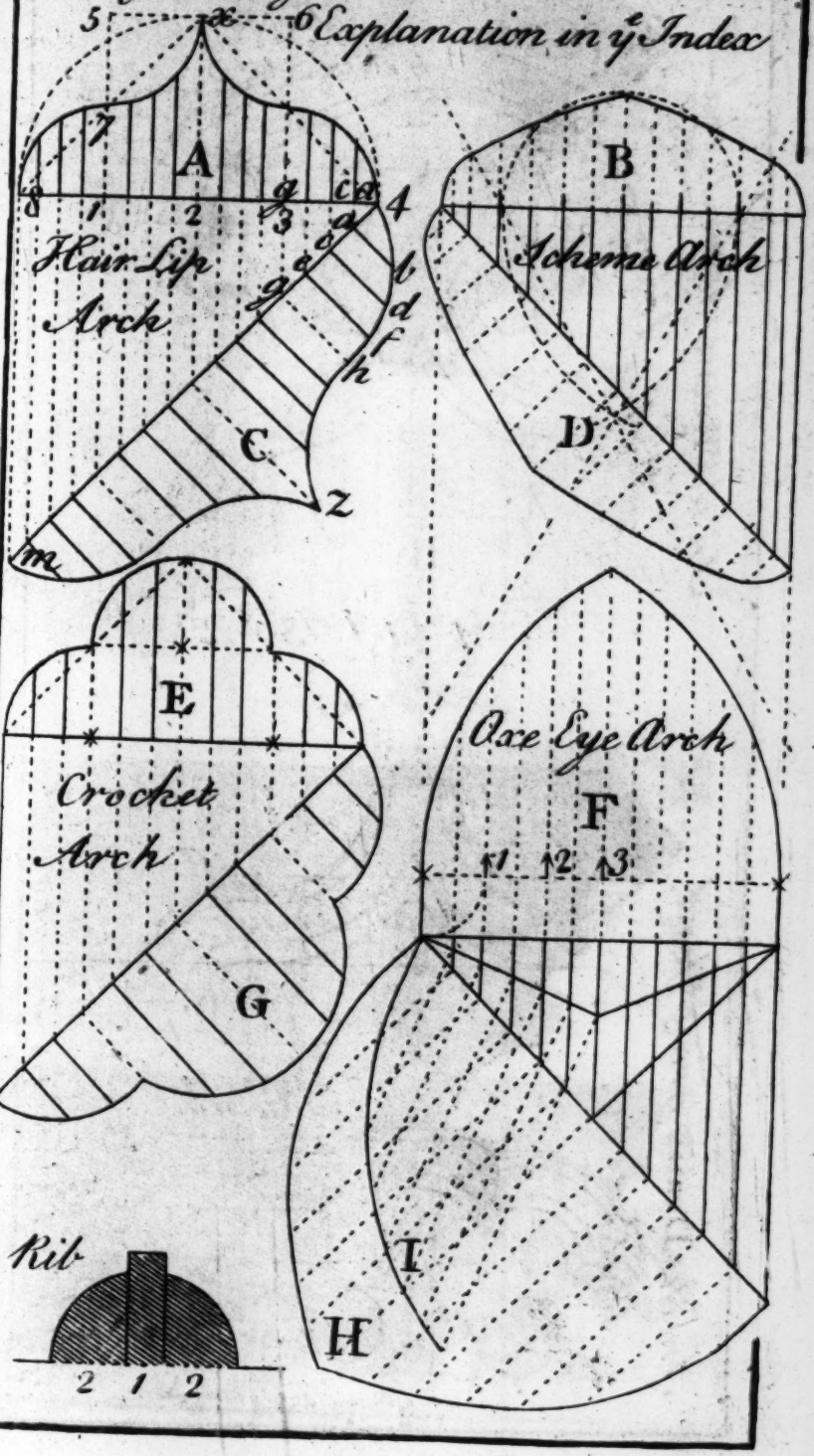


Gothick Arches for Heads of Chimney Pieces &c



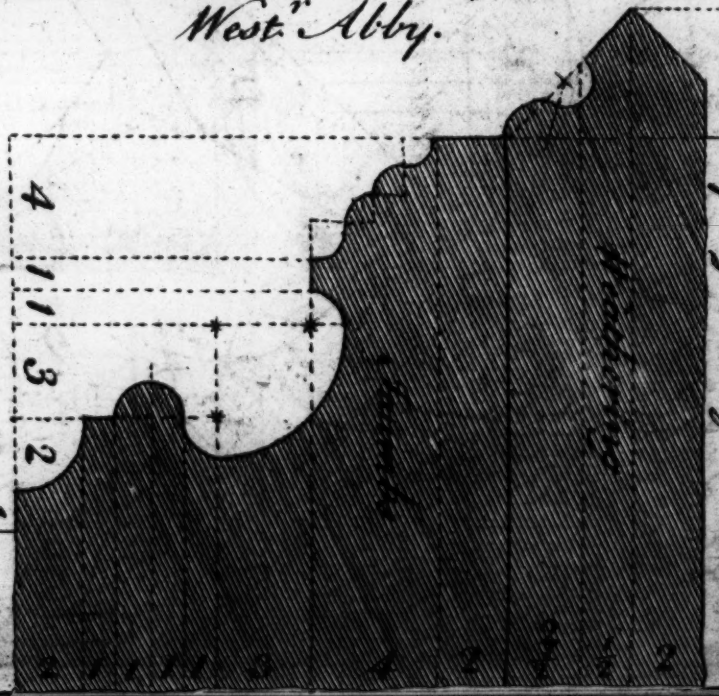
Vide. the Intex for Explantion.

Gothick Groins. Vide their Explanation in y^e Index



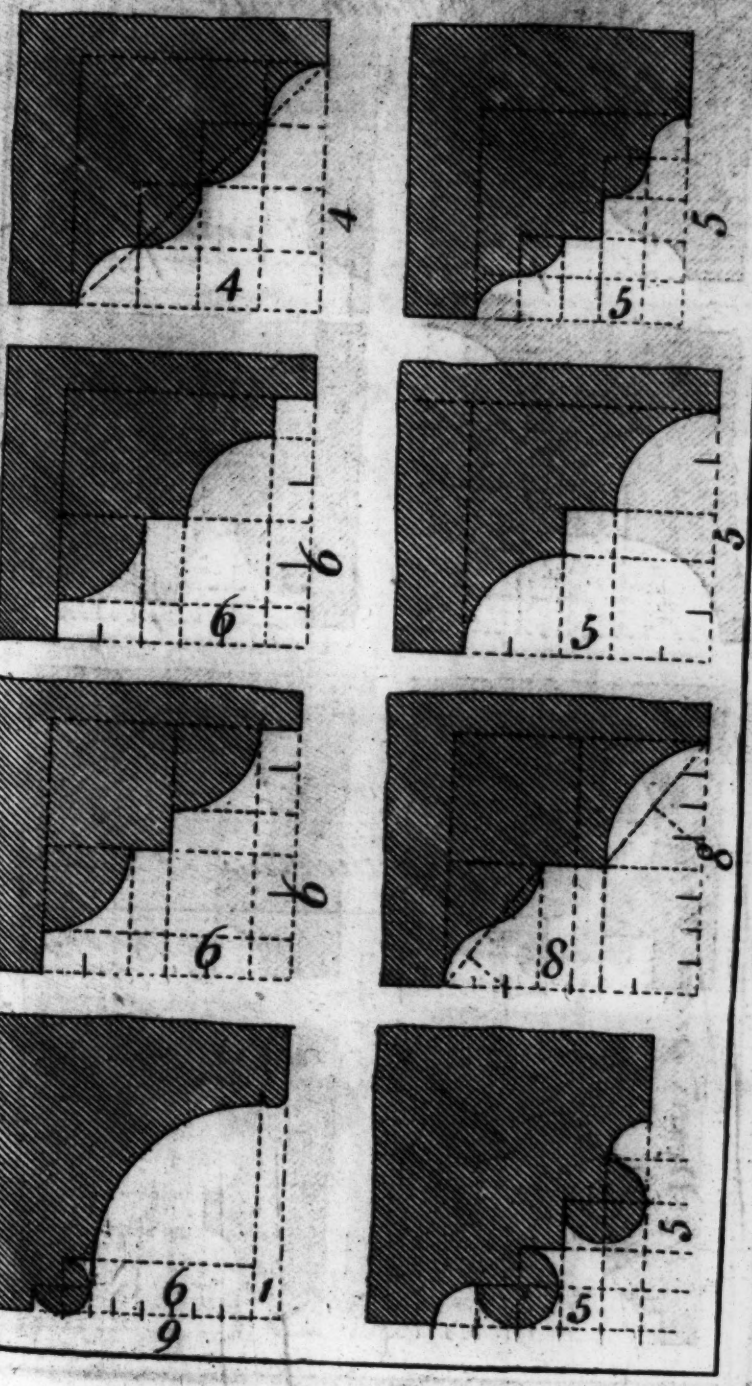
In the Deans *great Yard*
West.r Abby.

In the Deans *little Yard*
West.r Abby.

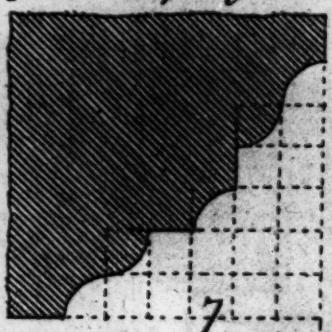


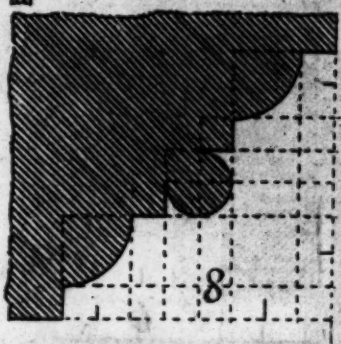
Jaumbs for Gothick Gates &c.

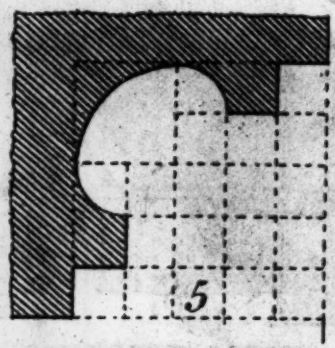
Jaumbs *for Gothick Doors &c*

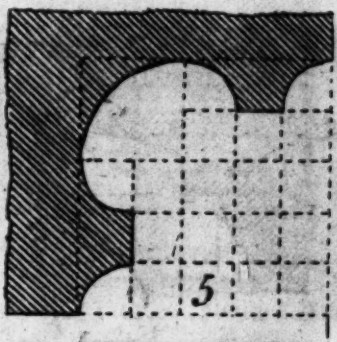


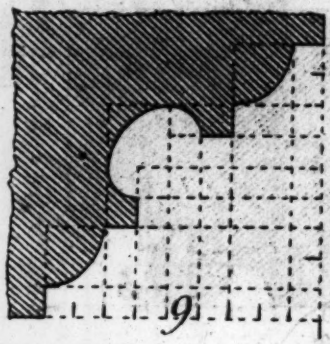
Jaumbs for Gothick Chimney Pieces &c

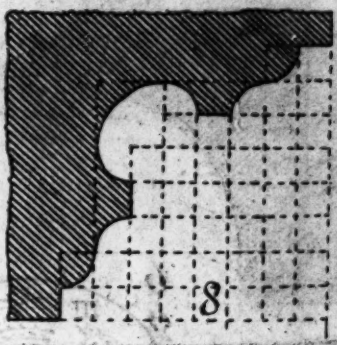




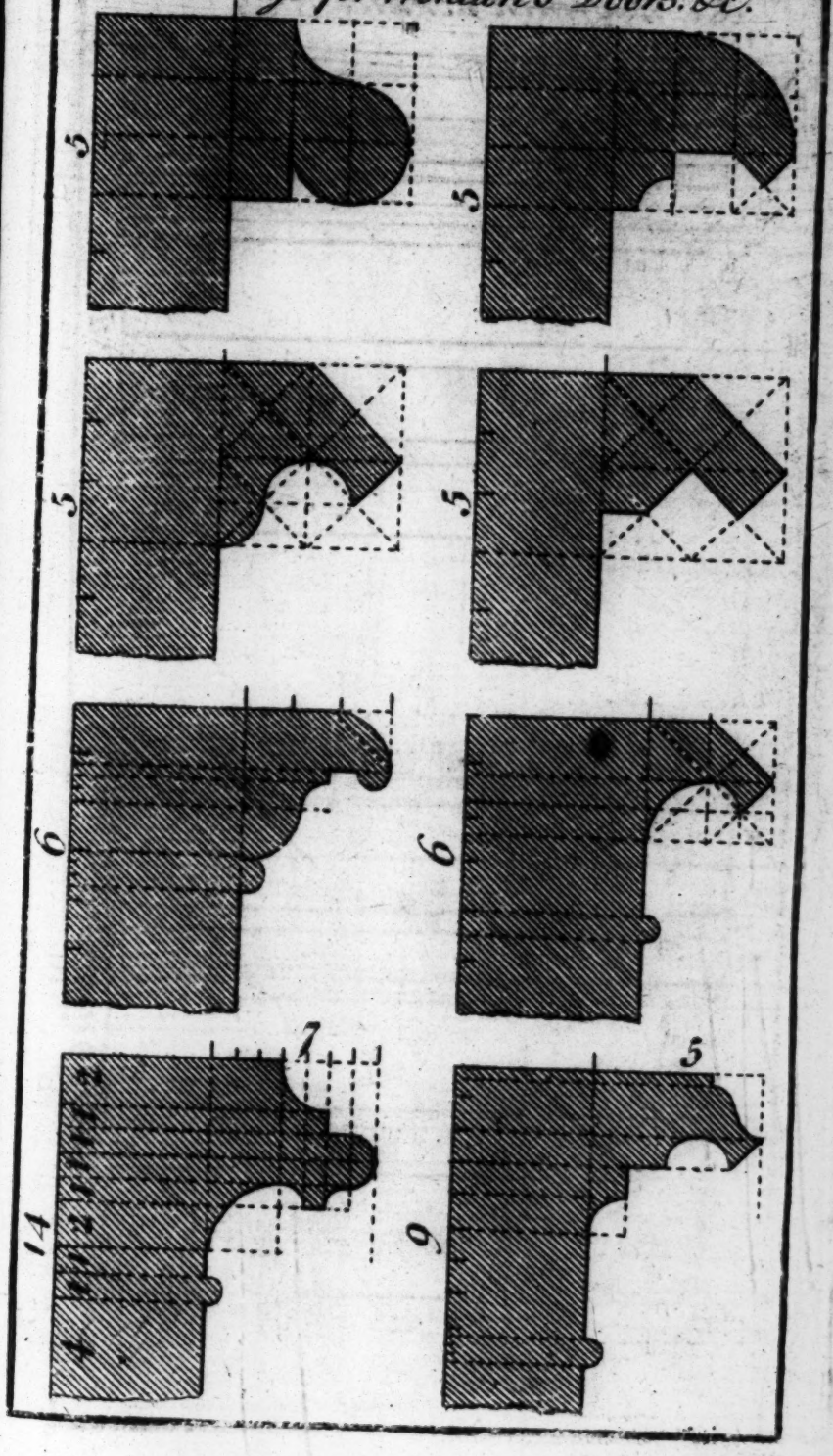




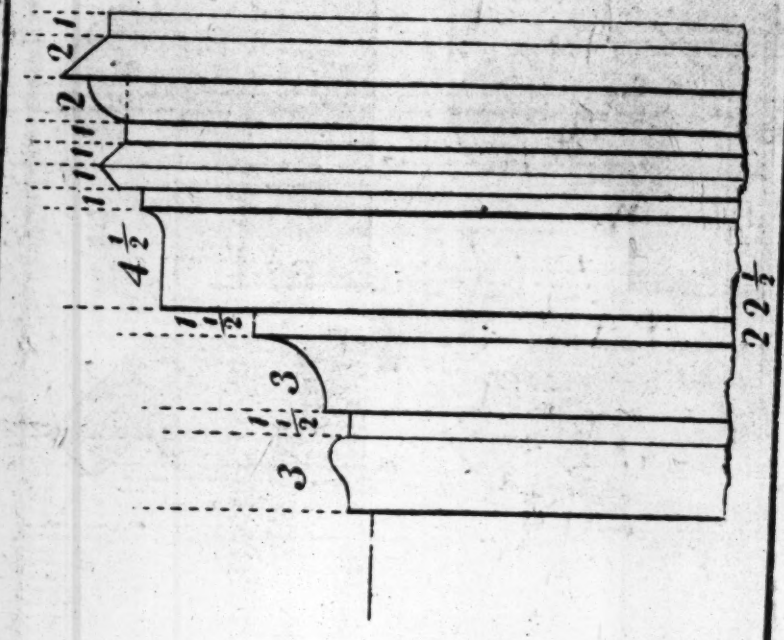


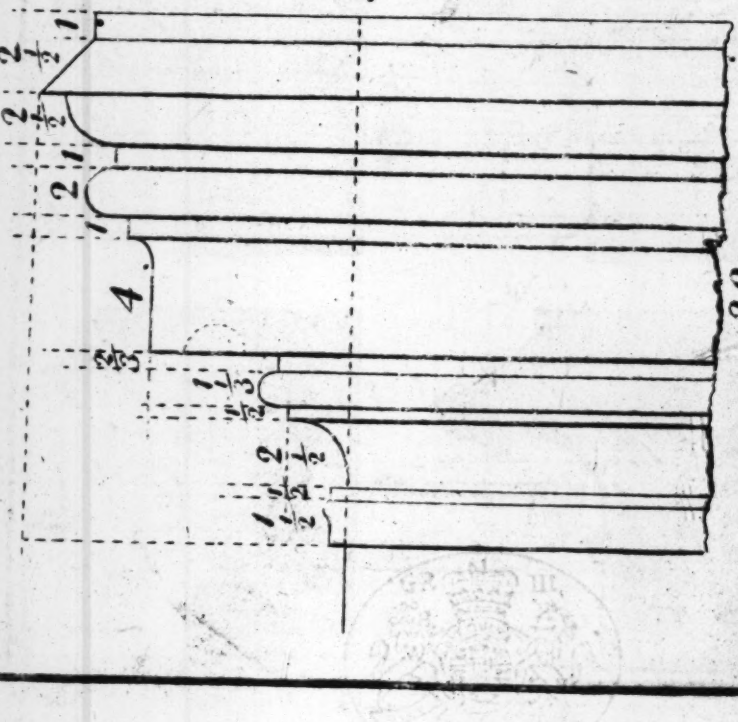


Weatherings for Windows Doors. &c.

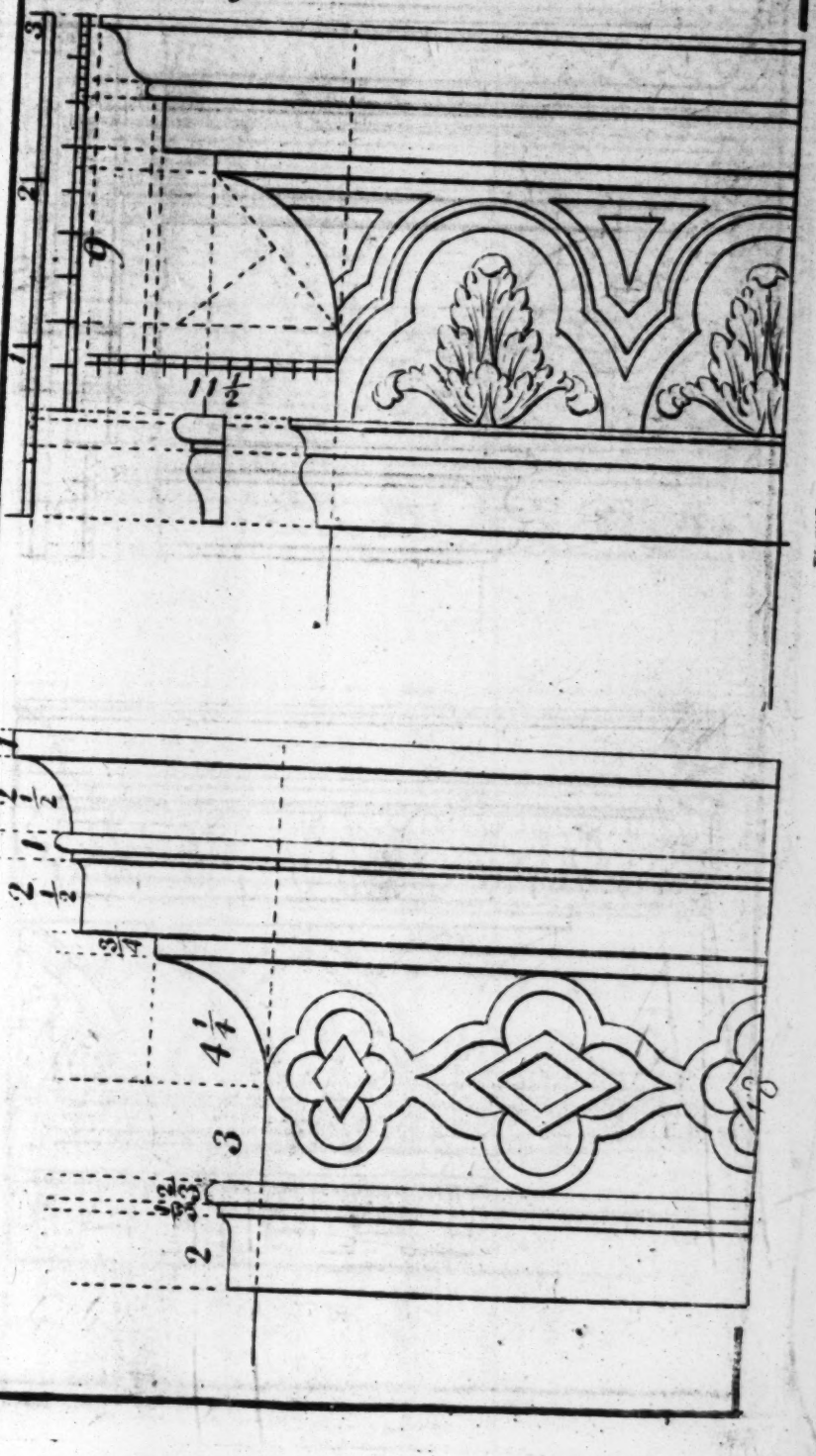


Gothick Cornices

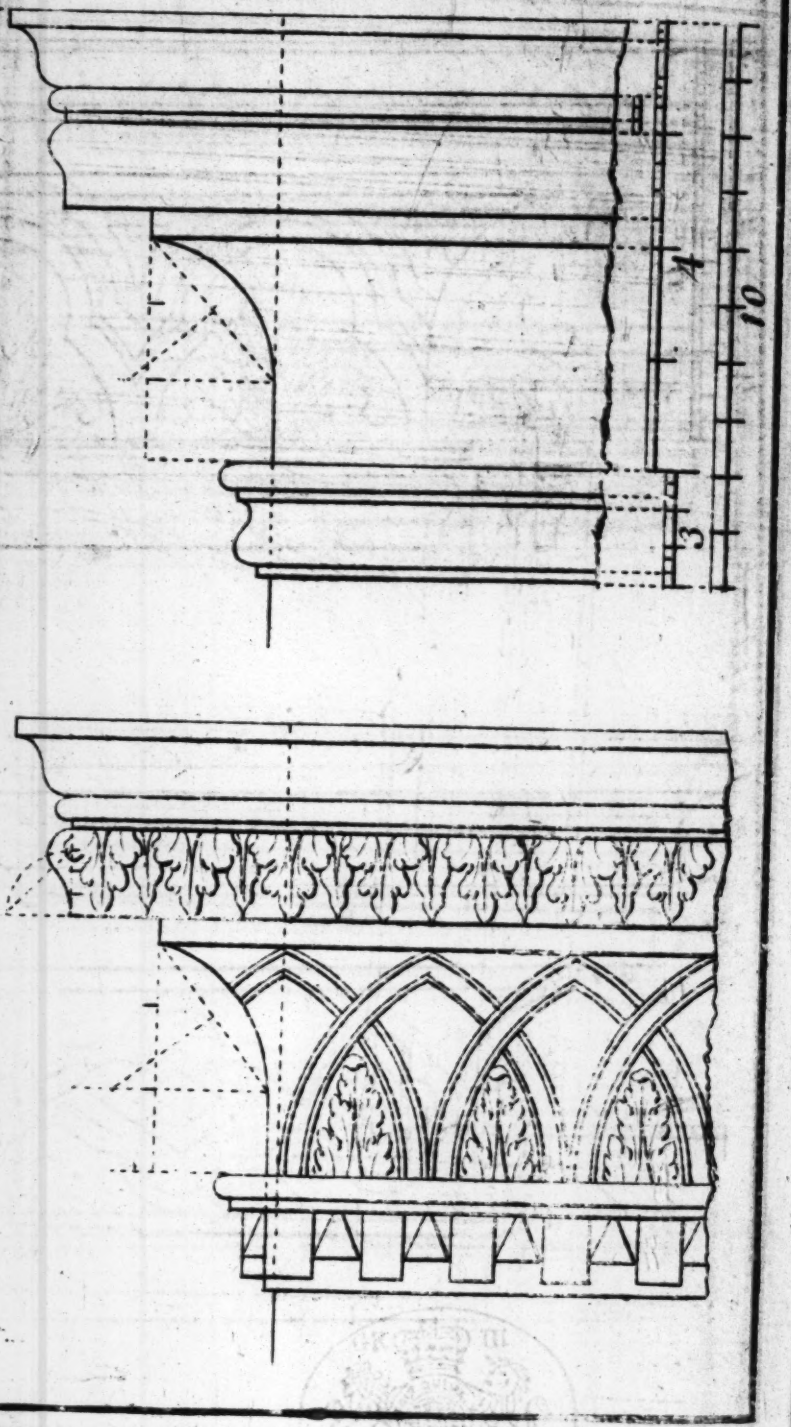




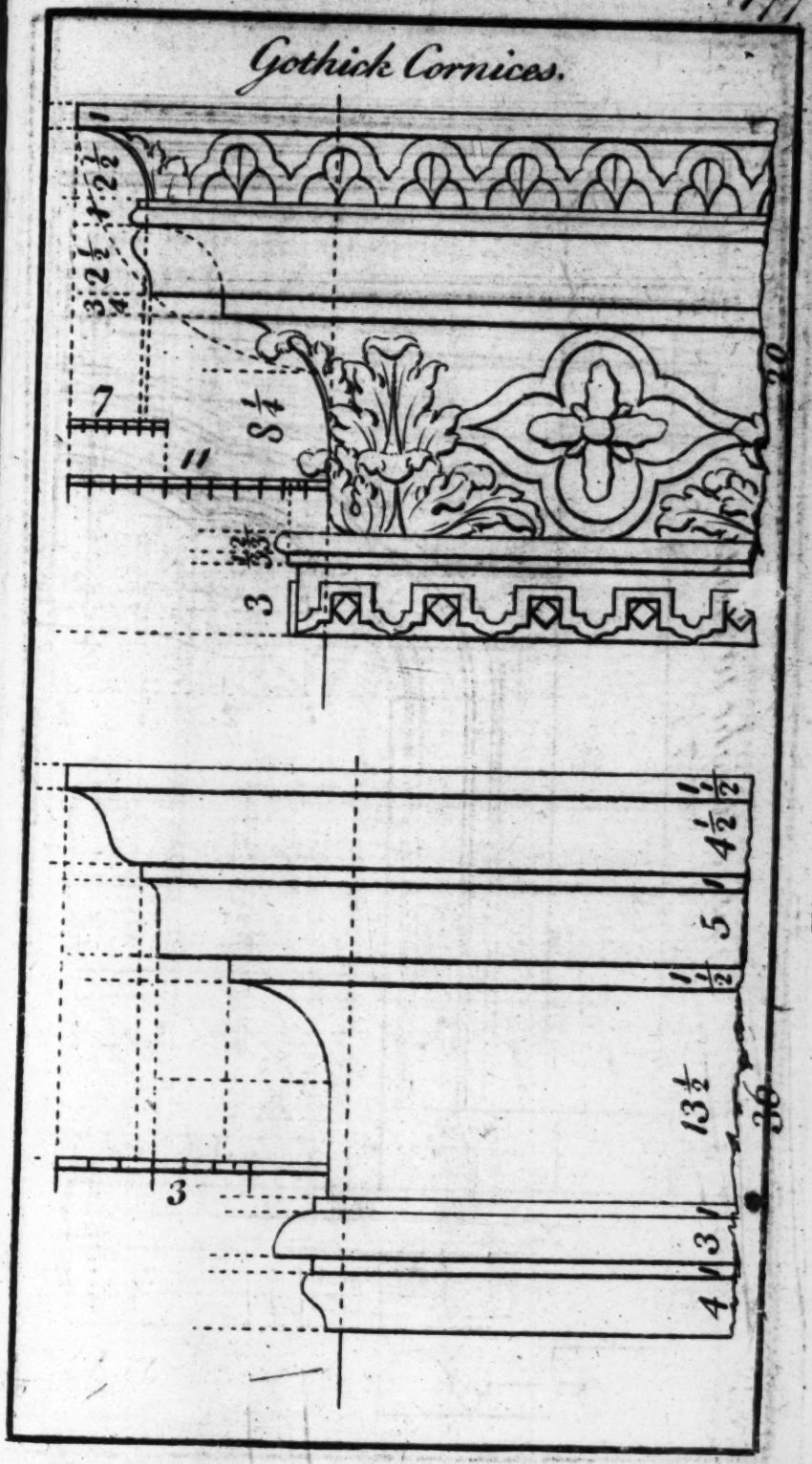
Gothick Cornices.

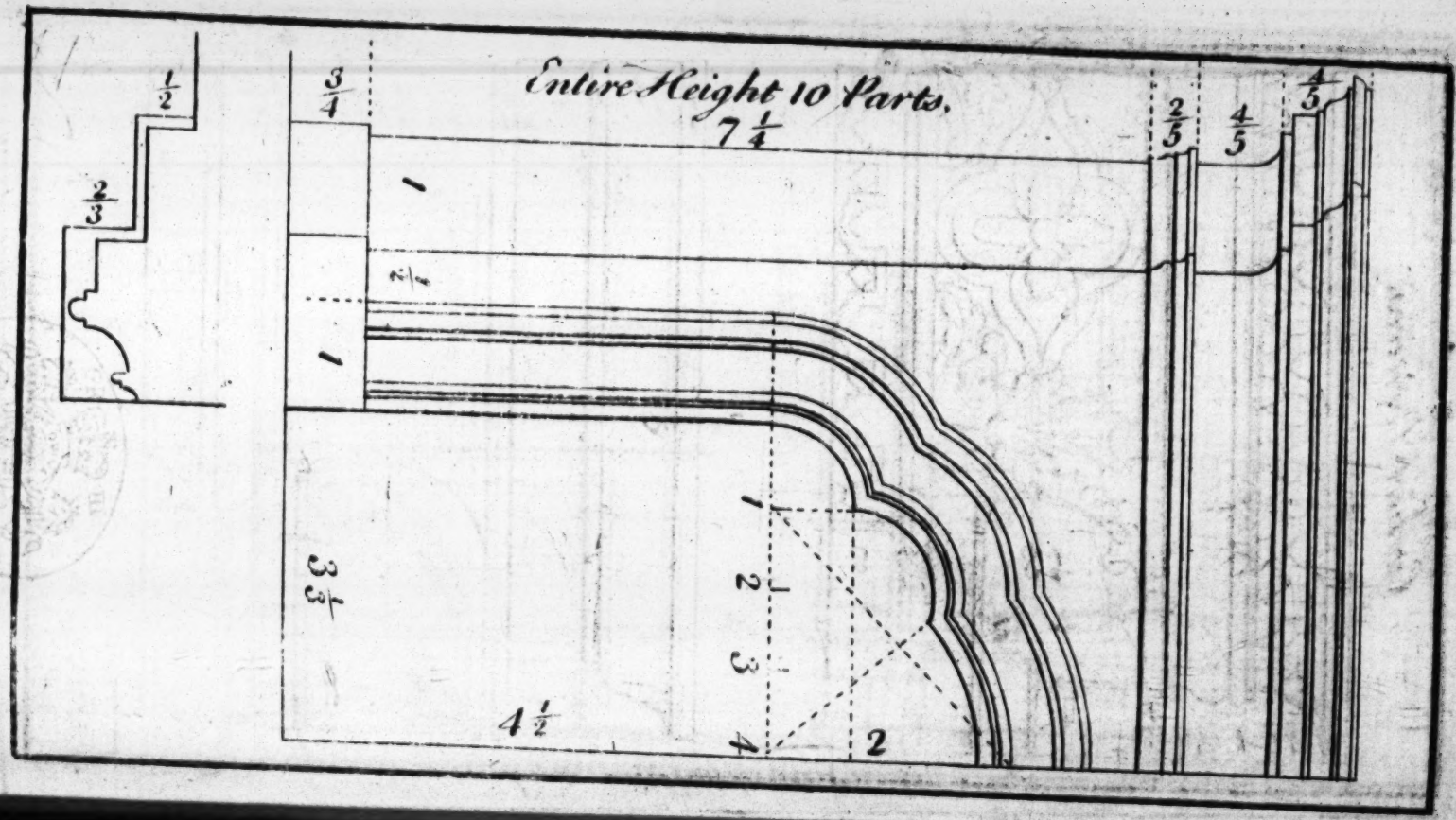


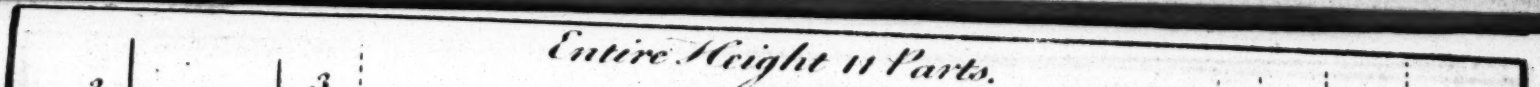
Gothick Cornices.

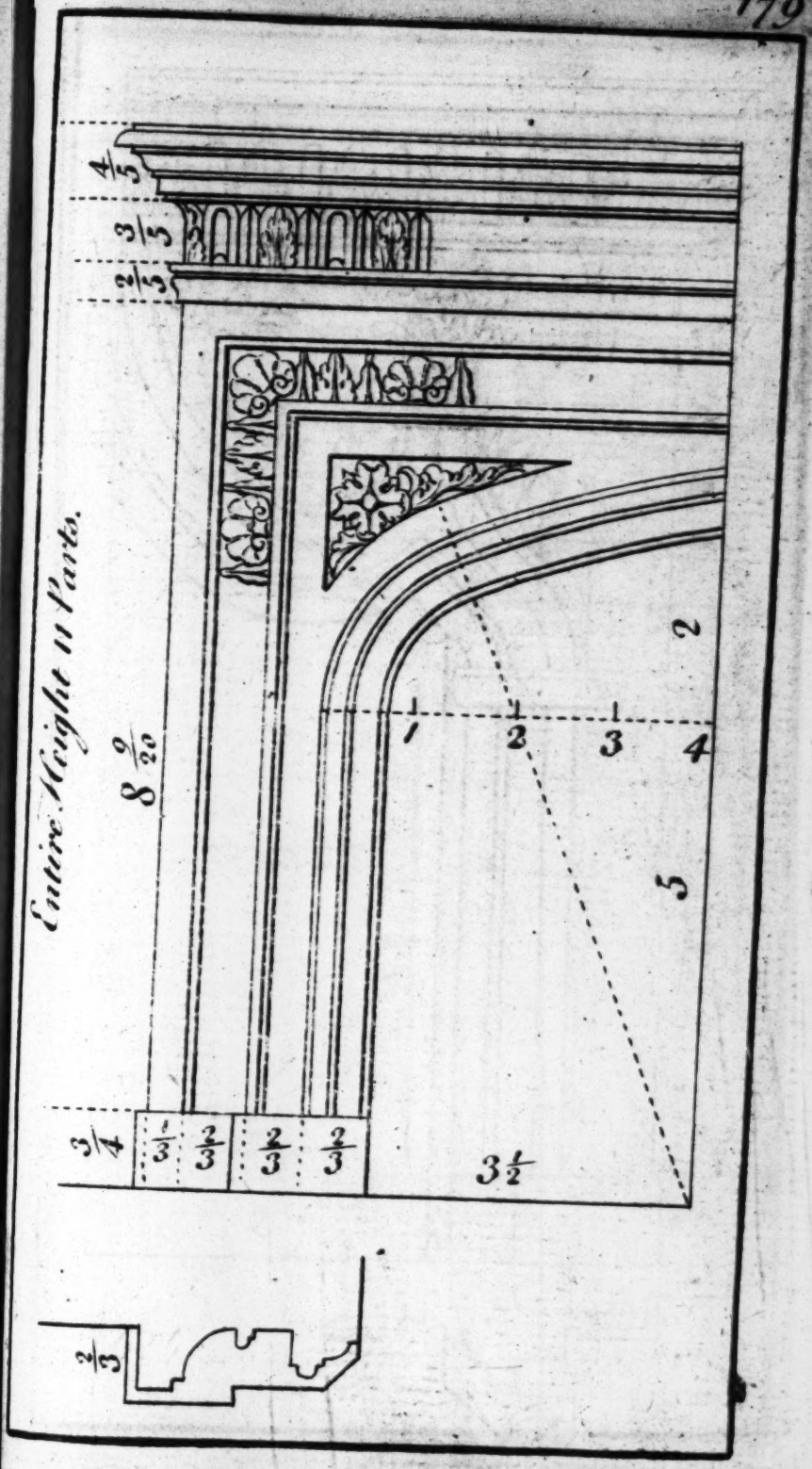


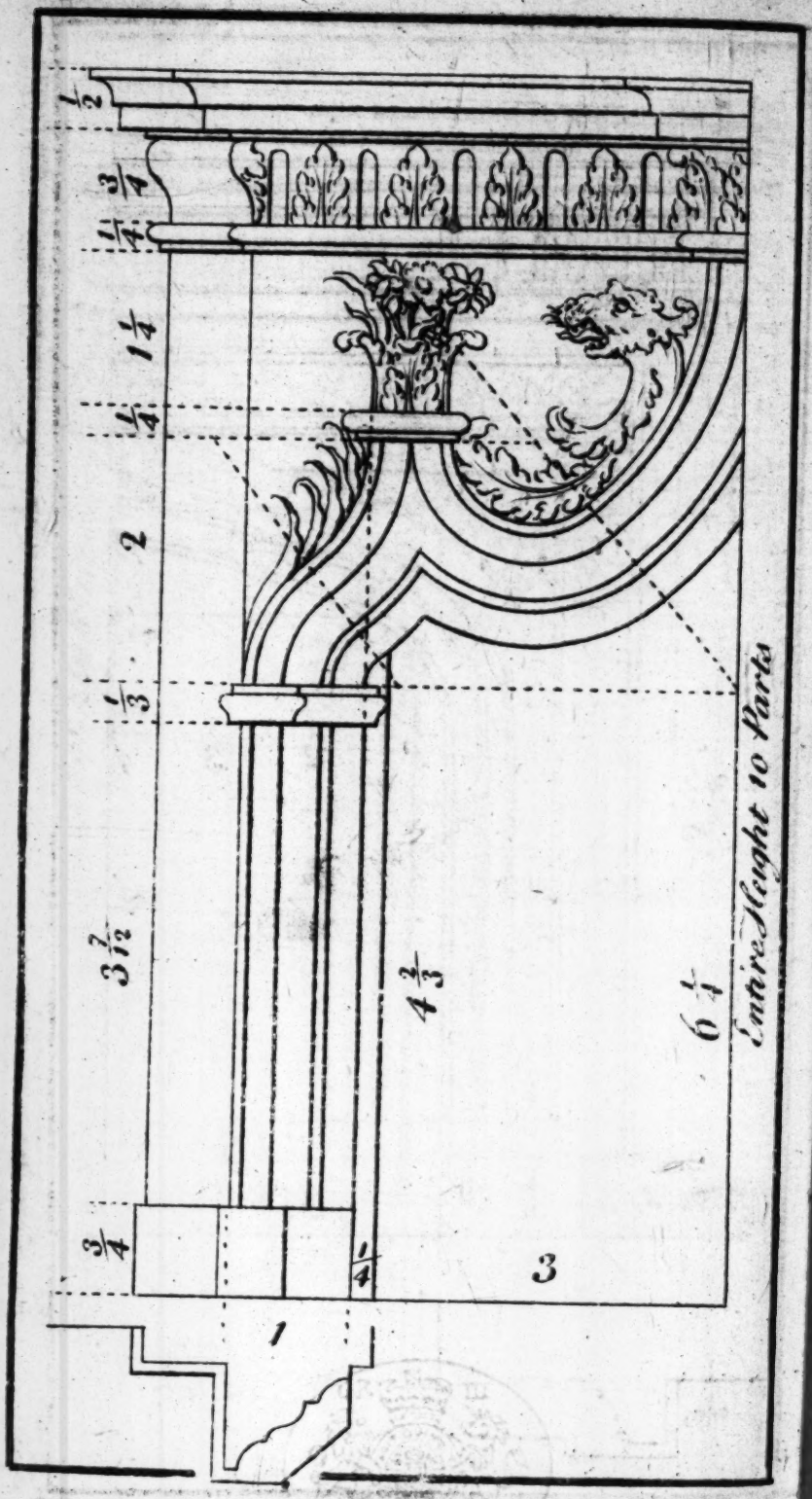
Gothick Cornices.



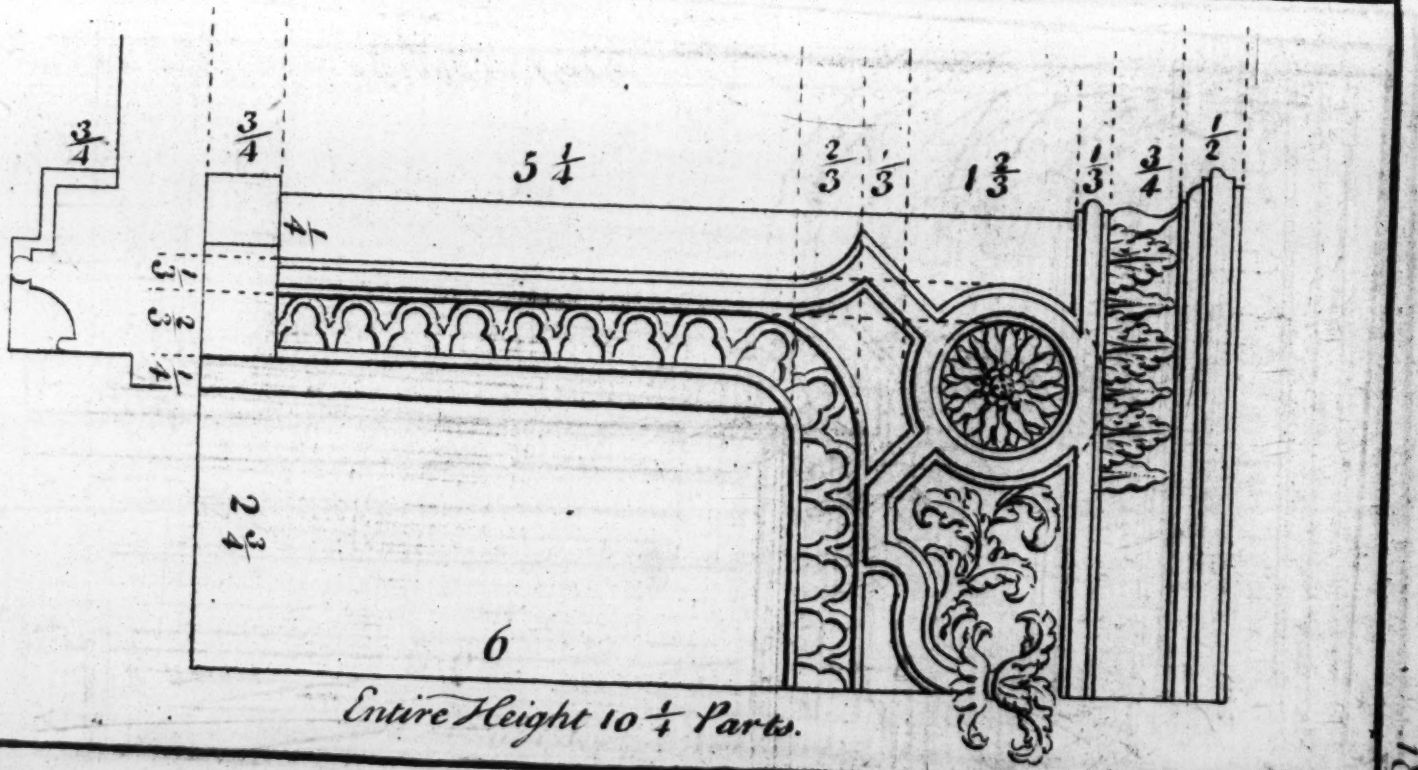

Entire Height 10 Parts.
7 1/4
1/2
2/3
3/4
2/5
4/5
4/5
3 1/3
4 1/2
2


Entire Height 11 Parts.


4/5
3/3
2/3
Entire Height in Parts.
8 2/20
1
2
3
4
2
3
3/4
1/3
2/3
2/3
2/3
3 1/2
2/3

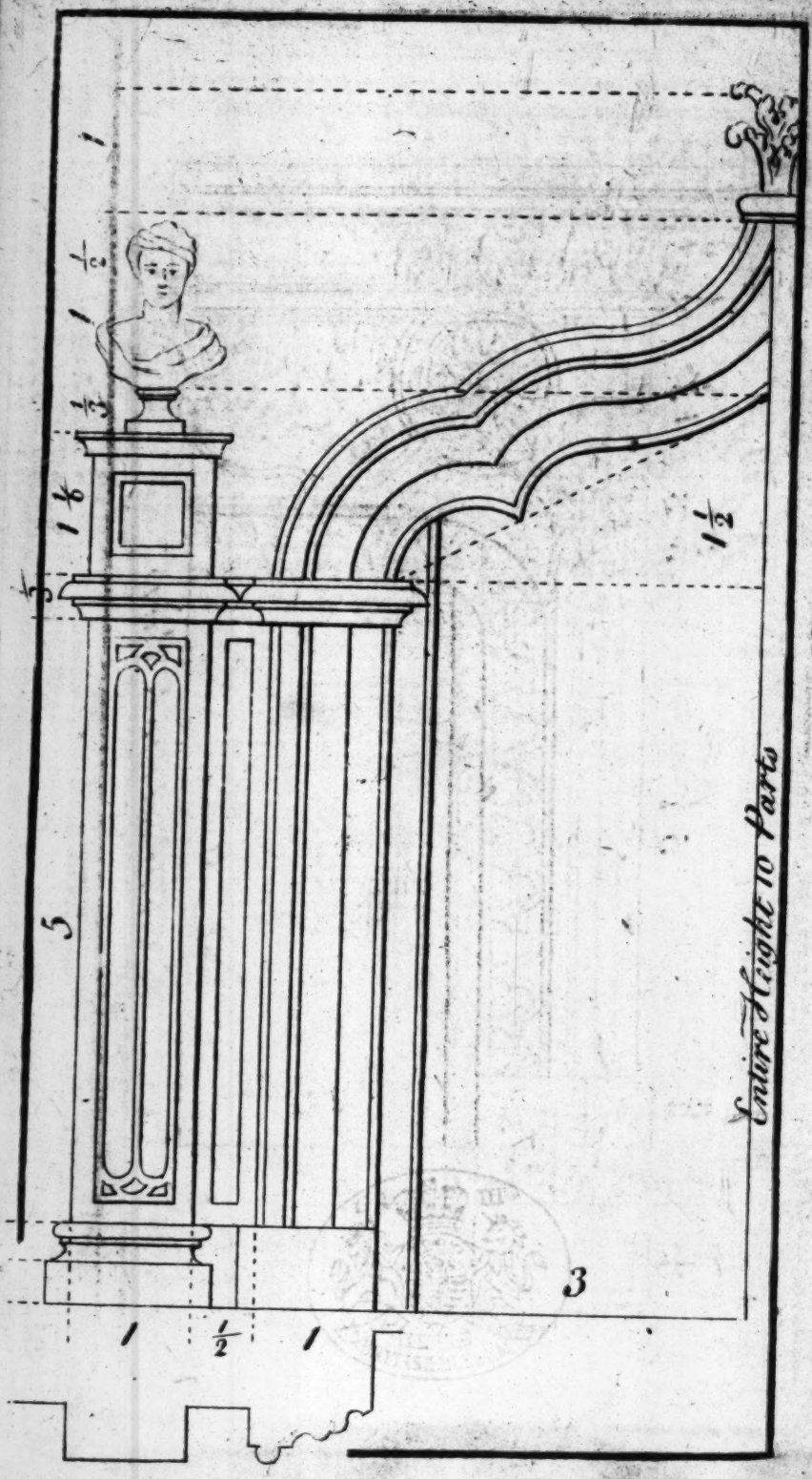

1/2
3/4
1 1/4
1 1/4
1/4
2
1/3
3 1/2
4 2/3
6 1/4
Entire Height 10 Parts
3/4
1/4
3
1

Entire Height 10 Parts

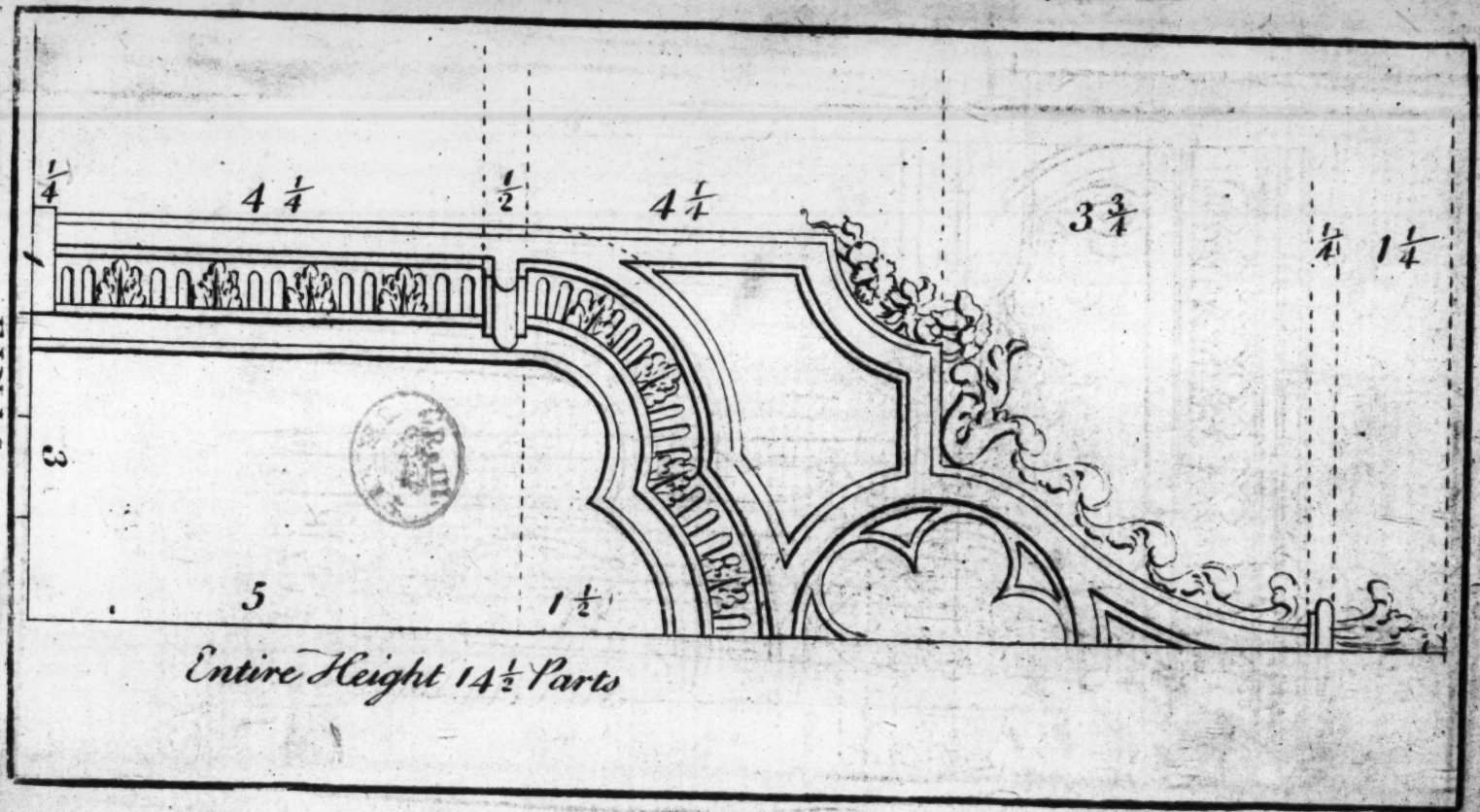


Entire Height 10 1/4 Parts.

182



1/3
2/3
1/3
1 1/2
1/2
1/2
1/2
3 3/4
3/4
1/3
2/3
1/3
1/3
1/3
1/6
2 1/2
5 1/2
Five Eighths Parts.



Entire Height 14 1/2 Parts

FINIS.